

DNAXPab

Hard-to-Find  
Antibody

# OPA1 DNAXPab

Catalog # H00004976-W01P

Size 200 ug

## Specification

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description     | Rabbit polyclonal antibody raised against a full-length human OPA1 DNA using DNAX™ Immune technology.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Technology              | <a href="#">DNAX™ Immune</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Immunogen               | Full-length human DNA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Sequence                | MWRLRRAAVACEVCQSLVKHSSGIKGSPLQKLHLVSRSIYSHHPTLKLQRPQLRTSFQQFSSL<br>TNLPLRKLKFSPIKYGYQPRNFWPARLATRLLKRLYLILGSAVGGGYTAKKTFDQWKDMIPDLSEY<br>KWMPDIVWEIDEYDFEKIRKALPSSDLVKLAPDFDKIVESLSLLKDDFTSGSPEETAFRATDRG<br>SESDKHFRKVSDEKIDQLQEELLHTQLKYQRILERLEKENKELRKLVLQKDDKGIHHRKLKSLID<br>MYSEVLDVLSDYDASYNTQDHLPRV VVG DQSAGKTSVLEMAQARIFPRGSGEMMTRSPVKVT<br>LSEGPHHVALFKDSSREFDLTKEEDLAALRHEIELMRKNVKEGCTVSPETISLNVKGPGQLQRMV<br>LVDLPGVINTVTSGMAPDTKETIFSISKAYMQNPNAIILCIQDGSVDAERSVTDLVSQMDPHGRRTIF<br>VLTKVDLAEKNVASPSRIQQIIIEGKLFPMKALGYFAVVTGKGNSSIESIAIREYEEFFQNSKLLKTS<br>MLKAHQVTTNRSLAVSDCFWKMVRESVEQQADSFKATRFNLETEWKNNYPRLRELDNRNLF<br>KAKNEILDEVISLSQVTPKHWEELQQSLWERVSTHVIENYLPAAQTMNSGTFNTTVDIKLKQWTD<br>KQLPNKAVEVAWETLQEEFSRFMTPEPKGEHDDIFDKLKEAVKEESIKRHKWNDFAEDSLRVIQ<br>HNALEDRSISDKQQWDAAYFMEEALQARLKD TENAIENMVGPDWKKRWLYWKNRTQE QCVHN<br>ETKNELEKMLKCNEEHPAYLASDEITVRKNLESRGVEVDPSLIKDTWHQVYRRHFLKTALNHCNL<br>CRRGFYYQRHFVDSELECNDVVLFWRIQRMLAITANTLRQQLTNTTEVRRLEKNVKEVLEDFEAD<br>GEKKIKLLTGKRVQLAEDLKKVREIQEKLD AFIEALHQE K |
| Host                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Purification            | Protein A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Quality Control Testing | Antibody reactive against mammalian transfected lysate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Storage Buffer          | In 1x PBS, pH 7.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Storage Instruction     | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)

- Flow Cytometry (Transfected cell)

## Gene Info — OPA1

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">4976</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| GeneBank Accession# | <a href="#">NM_015560.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Protein Accession#  | <a href="#">NP_056375.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Gene Name           | OPA1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Gene Alias          | FLJ12460, KIAA0567, MGM1, NPG, NTG, largeG                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene Description    | optic atrophy 1 (autosomal dominant)                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Omim ID             | <a href="#">125250</a> <a href="#">165500</a> <a href="#">605290</a> <a href="#">606657</a>                                                                                                                                                                                                                                                                                                                                                                                             |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Gene Summary        | This gene product is a nuclear-encoded mitochondrial protein with similarity to dynamin-related GTPases. It is a component of the mitochondrial network. Mutations in this gene have been associated with optic atrophy type 1, which is a dominantly inherited optic neuropathy resulting in progressive loss of visual acuity, leading in many cases to legal blindness. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq] |
| Other Designations  | OTTHUMP00000195065 mitochondrial dynamin-like GTPase optic atrophy 1                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Disease

- [Genetic Predisposition to Disease](#)
- [Glaucoma](#)
- [Leber hereditary optic neuropathy](#)
- [Low Tension Glaucoma](#)

- [Ocular Hypertension](#)
- [Optic Atrophies](#)
- [Optic Atrophy](#)