

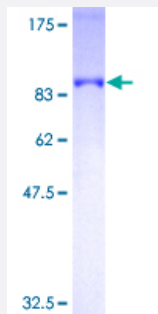
Full-Length

OPTN (Human) Recombinant Protein (P01)

Catalog # H00010133-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human OPTN full-length ORF (AAH32762, 1 a.a. - 571 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MSHQPLSCLTEKEDSPSESTGNGPPHLAHPNLDFTPEELLQQMKELLTENHQLKEAMKLNNQA
MKGRFEELSAWTEKQKEERQFFEIQSKEAKERLMALSHENEKLKEELGKLKGKSERSSEDPTD
DSRLPRAEAEQEKDQLRTQVVRLQAEKADLLGVSELQLKLNSSGSSDSFVEIRMAEGEAEGS
VKEIKHSPGPTRTVSTGTSRSADGAKNYFEHEELTVSQLLLCLREGNQKVERLEVALKEAKERS
DFEKKTSNRSEIETQTEGSTENDEEKGPETVGSEVEALNLQVTSFLKELQEHTKLSEAELMK
KRLQEKQALERKNSAIPSELNEKQELVYTNKKLELQVESMLSEIKMEQAKTEDEKSKLTVLQMT
HNKLLQEHNNALKTIEELTRKESEKVDRAVLKELSEKLELAEKALASKQLQMDQMKQIAKQED
LETMTILRAQMEVYCSDFAERAAREKIHEEKEQLALQLAVLLKENDAFEDGGRQSLMEMQSRH
GARTSDSDQQAYLVQRGAEDRDWRQQRNIHSCPKCGEVLDPIDTLQIHVMDCII

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

88.55

Interspecies Antigen Sequence

Mouse (76); Rat (73)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — OPTN

Entrez GeneID	10133
GeneBank Accession#	BC032762
Protein Accession#	AAH32762
Gene Name	OPTN
Gene Alias	FIP2, GLC1E, HIP7, HYPL, NRP, TFIIIA-INTP
Gene Description	optineurin
Omim ID	137760 602432 606657
Gene Ontology	Hyperlink

Gene Summary	This gene encodes the coiled-coil containing protein optineurin. Optineurin may play a role in normal-tension glaucoma and adult-onset primary open angle glaucoma. Optineurin interacts with adenovirus E3-14.7K protein and may utilize tumor necrosis factor-alpha or Fas-ligand pathways to mediate apoptosis, inflammation or vasoconstriction. Optineurin may also function in cellular morphogenesis and membrane trafficking, vesicle trafficking, and transcription activation through its interactions with the RAB8, huntingtin, and transcription factor IIIA proteins. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq]
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Other Designations

Huntingtin interacting protein L|OTTHUMP00000019125|OTTHUMP00000019126|OTTHUMP0000019127|OTTHUMP00000019128|glaucoma 1, open angle, E (adult-onset)|nemo-related protein|transcription factor IIIA-interacting protein|tumor necrosis factor alpha-inducible ce

Disease

- [Alzheimer Disease](#)
- [Genetic Predisposition to Disease](#)
- [Glaucoma](#)
- [Leber hereditary optic neuropathy](#)
- [Ocular Hypertension](#)
- [Optic Atrophy](#)
- [Optic Nerve Diseases](#)
- [Osteitis Deformans](#)
- [Retinal Diseases](#)
- [Tobacco Use Disorder](#)