

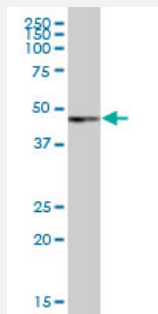
MaxPab®

## PAX6 MaxPab mouse polyclonal antibody (B01)

Catalog # H00005080-B01

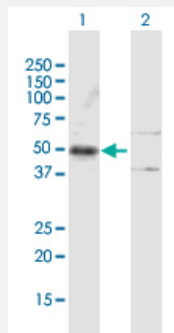
Size 50 uL

### Applications



#### Western Blot (Tissue lysate)

PAX6 MaxPab polyclonal antibody. Western Blot analysis of PAX6 expression in human pancreas.



#### Western Blot (Transfected lysate)

Western Blot analysis of PAX6 expression in transfected 293T cell line ([H00005080-T01](#)) by PAX6 MaxPab polyclonal antibody.

Lane 1: PAX6 transfected lysate(46.42 KDa).

Lane 2: Non-transfected lysate.

### Specification

#### Product Description

Mouse polyclonal antibody raised against a full-length human PAX6 protein.

#### Immunogen

PAX6 (NP\_000271.1, 1 a.a. ~ 422 a.a) full-length human protein.

#### Sequence

MQNSHSGVNQLGGVFVNGRPLPDSTRQKIVELAHSGARPCDISRLQVSNGCVSKILGRYYETGSI  
RPRAIGGSKPRVATPEVVSKIAQYKRECPSIFAWIIRDRLLESGVCTNDNIPSVSSINRVLRLNLASE  
KQQMGADGMYDKLRMLNGQTGSWGTRPGWYPGTSVPGQPTQDGCQQQEGGGENTNSISSNG  
EDSDEAQMRLQLKRKLQRNRTSFTQEIEALEKEFERTHYPDVFAERERLAAKIDLPEARIQVWFS  
NRRAKWRREEKLRNQRRQASNTPSHIPSSSFSTSVYQPIQPTTPVSSFTSGSMLGRTDTALTNT  
YSALPPMPSFTMANNLPMQPPVPSQTSSSYSCMLPTSPSVNGRSYDITYPPHMQTHMNSQPMGT  
SGTTSTGLISPGVSPVPVQVPGSEPDMSQYWPRQLQ

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| Host                    | Mouse                                                                                          |
| Reactivity              | Human                                                                                          |
| Quality Control Testing | Antibody reactive against mammalian transfected lysate.                                        |
| Storage Buffer          | No additive                                                                                    |
| Storage Instruction     | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                       |
| Note                    | For IHC and IF applications, antibody purification with Protein A will be needed prior to use. |

## Applications

- Western Blot (Tissue lysate)

PAX6 MaxPab polyclonal antibody. Western Blot analysis of PAX6 expression in human pancreas.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of PAX6 expression in transfected 293T cell line ([H00005080-T01](#)) by PAX6 MaxPab polyclonal antibody.

Lane 1: PAX6 transfected lysate(46.42 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

## Gene Info — PAX6

|                     |                                                                                                                                                                                                                |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">5080</a>                                                                                                                                                                                           |
| GeneBank Accession# | <a href="#">NM_000280.2</a>                                                                                                                                                                                    |
| Protein Accession#  | <a href="#">NP_000271.1</a>                                                                                                                                                                                    |
| Gene Name           | PAX6                                                                                                                                                                                                           |
| Gene Alias          | AN, AN2, D11S812E, MGC17209, MGDA, WAGR                                                                                                                                                                        |
| Gene Description    | paired box 6                                                                                                                                                                                                   |
| Omim ID             | <a href="#">106210</a> <a href="#">120200</a> <a href="#">120430</a> <a href="#">129750</a> <a href="#">136520</a> <a href="#">148190</a> <a href="#">165550</a> <a href="#">603807</a> <a href="#">607108</a> |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                      |

## Gene Summary

This gene encodes paired box gene 6, one of many human homologs of the *Drosophila melanogaster* gene *prd*. In addition to the hallmark feature of this gene family, a conserved paired box domain, the encoded protein also contains a homeo box domain. Both domains are known to bind DNA, and function as regulators of gene transcription. This gene is expressed in the developing nervous system, and in developing eyes. Mutations in this gene are known to cause ocular disorders such as aniridia and Peter's anomaly. Alternatively spliced transcript variants encoding either the same or different isoform have been found for this gene. [provided by RefSeq]

## Other Designations

OTTHUMP00000038833|OTTHUMP00000038834|OTTHUMP00000038835|OTTHUMP00000038836|OTTHUMP00000038837|OTTHUMP00000038838|OTTHUMP00000038839|OTTHUMP00000038840|paired box gene 6|paired box homeotic gene-6

## Pathway

- [Maturity onset diabetes of the young](#)

## Disease

- [Abnormalities](#)
- [Alcoholism](#)
- [Atherosclerosis](#)
- [Atrophy](#)
- [Autistic Disorder](#)
- [Blepharoptosis](#)
- [Calcinosis](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Myopia](#)
- [Photophobia](#)
- [Retinal Diseases](#)

- [Tobacco Use Disorder](#)
- [Vision Disorders](#)