For Research Use Only

# PAX6 Monoclonal antibody

Catalog Number:67529-1-Ig 5 Publications

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## Basic Information

Catalog Number:
67529-1-Ig

Size:
150ul , Concentration: 2000 ug/ml by Nanodrop and 870 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG29977

GenBank Accession Number:
BC011953

GeneID (NCBI):
5080

UNIPROT ID:
P26367

Full Name:
paired box 6

Calculated MW:
47 kDa

Observed MW:
47 kDa

Purification Method:
Protein A purification

CloneNo.:
2C5A1

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:200-1:800

## Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
IF

Species Specificity:
human, mouse, rat

Cited Species:
human, rat

***Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0***

Positive Controls:

WB : A-673 cells, HeLa cells, hTERT-RPE1 cells, JAR cells, K-562 cells, Neuro-2a cells, rat cerebellum tissue, SW480 cells, HT-1376 cells, MG-63 cells, rat retina tissue, mouse retina tissue, rabbit retina tissue

IHC : mouse eye tissue, mouse brain tissue, rat brain tissue

## Background Information

PAX6, a paired domain and homeodomain-containing transcription factor. Interaction with TRIM11 leads to ubiquitination of PAX6 and its proteasomal degradation. PAX6 is one of the earliest genes expressed in the eye field and considered a master control gene for retinal and eye development. PAX6 also regulates the development of the olfactory, central nervous systems, pituitary, and pancreas. PAX6 mutations can cause complex ocular disorders such as aniridia and Peter's anomaly.

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Mengying Xu | 33655347 | Anal Bioanal Chem | IF |
| Wei Shan | 39490210 | Stem Cell Res | IF |
| Jingke Cheng | 39405989 | Stem Cell Res | IF |

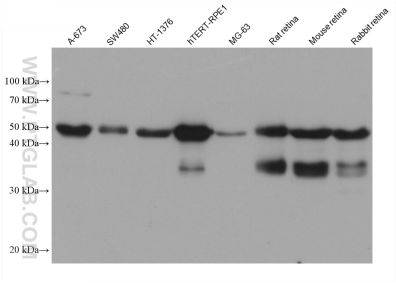
## Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

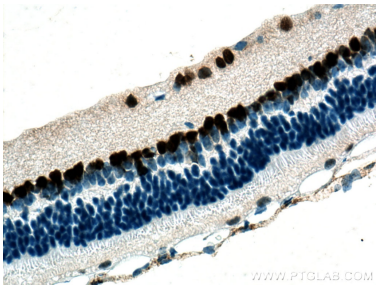
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

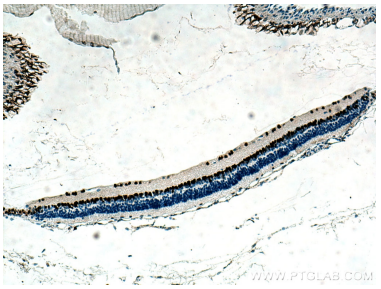
## Selected Validation Data




Various lysates were subjected to SDS PAGE followed by western blot with 67529-1-Ig (PAX6 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.




Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using 67529-1-Ig (PAX6 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).




Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using 67529-1-Ig (PAX6 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).