

For Research Use Only

# PAX6 Monoclonal antibody

Catalog Number: 67529-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 67529-1-Ig	<b>GenBank Accession Number:</b> BC011953	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 2000 µg/ml by Nanodrop and 870 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5080	<b>CloneNo.:</b> 2C5A1
<b>Source:</b> Mouse	<b>Full Name:</b> paired box 6	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:200-1:800
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 47 kDa	
<b>Immunogen Catalog Number:</b> AG29977	<b>Observed MW:</b> 47 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF	<b>WB :</b> rat retina tissue, JAR cells, hTERT-RPE1 cells, HeLa cells, K-562 cells, Neuro-2a cells
<b>Species Specificity:</b> Human, mouse, rat	<b>IHC :</b> mouse eye tissue, mouse brain tissue, rat brain tissue
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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

## Storage

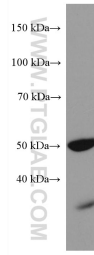
**Storage:**  
Store at -20°C.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 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

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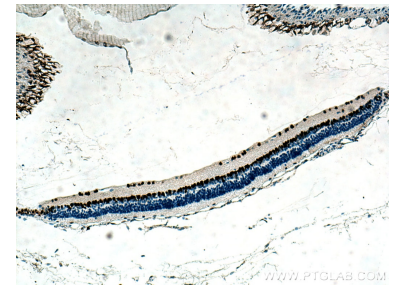
## Selected Validation Data



rat retina tissue were subjected to SDS PAGE followed by western blot with 67529-1-Ig (PAX6 antibody) at dilution of 1:3000 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).