

For Research Use Only

PAX6 Monoclonal antibody

Catalog Number: 67529-1-Ig 8 Publications



Basic Information

Catalog Number: 67529-1-Ig	GenBank Accession Number: BC011953	Purification Method: Protein G purification
Size: 150ul , Concentration: 2000 ug/ml by Nanodrop and 870 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5080	CloneNo.: 2C5A1
Source: Mouse	UNIPROT ID: P26367	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:200-1:800
Isotype: IgG1	Full Name: paired box 6	
Immunogen Catalog Number: AG29977	Calculated MW: 47 kDa	
	Observed MW: 47 kDa	

Applications

Tested Applications: WB, IHC, ELISA	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
Cited Applications: WB, IF	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse, rat	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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
Yanlin Wang	40204795	Sci Rep	WB
Kaicheng Xu	40117376	Sci Adv	IF

Storage

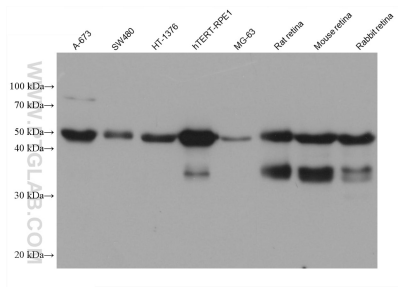
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

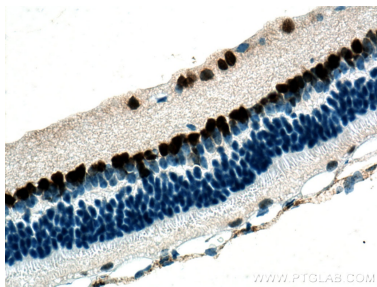
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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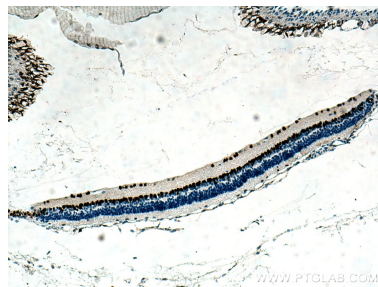
Selected Validation Data



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).