For Research Use Only

## PAX6 Polyclonal antibody

Catalog Number:12323-1-AP

Featured Product

53 Publications

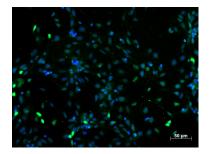


Basic Information	Catalog Number: 12323-1-AP	GenBank Accession Number: BC011953		Purification Method: Antigen affinity purification	
	Size:	GenelD (NCBI):		Recommended Dilutions:	
	900 µg/ml	5080		WB 1:500-1:3000 IHC 1:500-1:2000	
	Source: Rabbit	UNIPROT ID: P26367		IIIC 1.300-1.2000	
	lsotype: IgG	Full Name: paired box 6			
	Immunogen Catalog Number: AG2984	Calculated MW: 47 kDa			
		Observed MW: 47 kDa			
Applications	Tested Applications:		Positive Con	trols:	
	Cited Applications: tissue, rat bra			ls, mouse embryo tissue, human stomac rain tissue	
	WB,IHC,IF Species Specificity: human, mouse, rat		IHC : mouse brain tissue, mouse eye tissue, human retinoblastoma tissue, mouse embryo tissue		
	Cited Species: human, rat, mouse				
	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 home ubiquitination of PAX6 and its pro and considered a master control g olfactory, central nervous system as aniridia and Peter's anomaly.	oteasomal degradation. gene for retinal and eye	PAX6 is one of the development. PA	e earliest genes expressed in th X6 also regulates the developm	e eye fie nent of th
Notable Publications	Author	Pubmed ID Jo	urnal	Applicat	tion
Notable Publications	Xin Wen	36249018 Fr	ont Oncol	WB	
lotable Publications			S Chem Neurosci		
lotable Publications	Xi Gu	J00/49JJ AC			
Notable Publications	Xi Gu Philip G Zaworski		nal Biochem	WB	

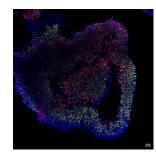
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

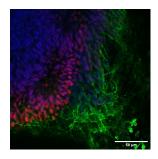
## Selected Validation Data



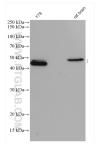
Immunofluorescent staining of PAX6 (12323-1-AP, 1:250 dilution) with 4% PFA fixed control human induced pluripotent stem cells (hiPSC) derived neuronal precursor cells (NPCs). (Green: PAX6; Blue: DAPI). Provided by BioTalentum Ltd., Hungary.



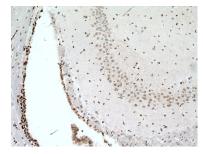
Retinal organoids (day 30) generated from human induced pluripotent stem cells (iPSCs) and fixed with 4% PFA. Stained for PAX6 with 12323-1-AP at 1:600 (green), and SOX2 with 11064-1-AP at 1:200 (red), Nuclear stain DAPI (blue). Scale bar = 20 µm. Data generated by Alessandro Bellapianta at Johannes Kepler Universitat, Austria.



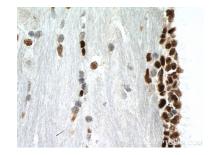
Retinal organoids (day 30) generated from human induced pluripotent stem cells (iPSCs) and fixed with 4% PFA. Stained for Tubulin beta 3/TU11 using 66375-1-1g at 1:500 dilution (green) and PAX6 (12323-1-AP) at 1:500. Nuclear stain DAPI (blue). Scale bar = 50 µm. Data generated by Alessandro Bellapianta at Johannes Kepler Universitat, Austria.



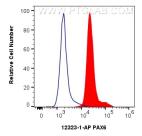
Various lysates were subjected to SDS PAGE followed by western blot with 12323-1-AP (PAX6 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 12323-1-AP (PAX6 antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 12323-1-AP (PAX6 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10^6 SH-SY5Y cells were intracellularly stained with 0.4 ug Anti-Human PAX6 (12323-1-AP) and Coralite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).