For Research Use Only

SOX2 Polyclonal antibody Catalog Number: 11064-1-AP Featured Product





Basic Information	Catalog Number: 11064-1-AP	GenBank Accession Number: BC013923	Purification Method: Antigen affinity purification	
	Size:	GenelD (NCBI):	Recommended Dilutions:	
	150ul , Concentration: 600 ug/ml by	6657	WB 1:500-1:1000	
	Nanodrop;	UNIPROT ID:	IHC 1:50-1:200	
	Source:	P48431	IF-P 1:50-1:500	
	Rabbit	Full Name:	IF/ICC 1:50-1:500	
	Isotype:	Isotype: SRY (sex determining region Y)-box 2 IgG Calculated MW:		
	IgG			
	Immunogen Catalog Number: AG1530	34 kDa		
		Observed MW: 34-40 kDa		
Applications	Tested Applications:	Positive Controls:		
	WB, IHC, IF/ICC, IF-P, ELISA	WB : HEK	WB : HEK-293 cells,	
	WB, IHC, IF, IP, COIP squamous		nan lung cancer tissue, human cervical Js cancer tissue, human gliomas tissue, mous	
	Species Specificity: human, mouse, rat, zebrafish	brain tis	sue, mouse embryo tissue	
	Cited Species:		use brain tissue, human embronic stem cells,	
	human, mouse, rat, pig, hamster, goa	t	mbryo tissue U-251 cells,	
	TE buffer pH 9.0; (*) Alternati retrieval may be performed w			
	buffer pH 6.0			
Background Information	Sox 2, also known as SRY (sex determ renewal of undifferentiated ES cells fibroblasts to a pluripotent state. Sow development. Affinity purified rabbi cells. This antibody is a rabbit polycl undiferentiated cell population that expresses the stem cell markers Sox	and is one of the key transcriptior 2 expressed in undifferentiated p t anti-Sox 2 antibody can be used onal antibody raised against an in is intermingled with the Bergman 2 and Nestin, and lacks markers o	iption factor essential for maintaining self- ifactors used to reprogram mouse and human luripotent stem cells and germ cells during to demonstrate pluripotency of ES and iPS nternal region of human SOX2. a rare n glia of the adult murine cerebellar cortex, f glial or neuronal diferentiation. Sox2- own stem cell niche of the adult brain.	
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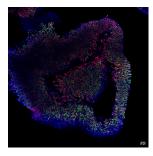
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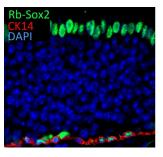
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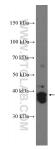
Selected Validation Data



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.



IF result of SOX2 antibody (11064-1-AP, 1:300) with 1% PLP fixed adult mouse olfactory epithelium. (Red:CK14; Green: SOX2; Blue: DAPI). By Brian Lin, Tufts University.



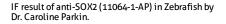
HEK-293 cells were subjected to SDS PAGE followed by western blot with 11064-1-AP (SOX2 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.

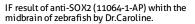


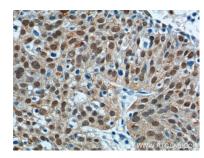


20X Sagittal section through the ventral midbrain. Dorsal to the top Dienchephalic ventricle to left. Lateral recess of diecnchepahic ventricle to the right.

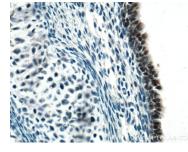
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 11064-1-AP (SOX2 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



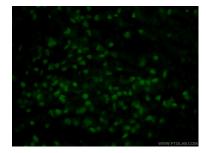




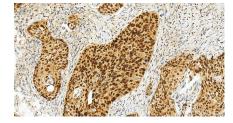
Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 11064-1-AP (SOX2 Antibody) at dilution of 1:200 (under 40x lens).

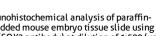


Immunohistochemical analysis of paraffinembedded mouse embryo tissue slide using 11064-1-AP (SOX2 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

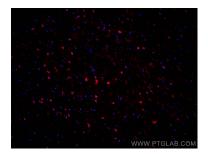


Immunofluorescent analysis of (4% PFA) fixed mouse embryo tissue using 11064-1-AP (SOX2 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

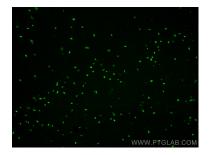




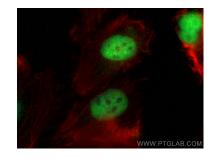
Immunohistochemical analysis of paraffin-embedded mouse embryo tissue slide using 11064-1-AP (SOX2 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



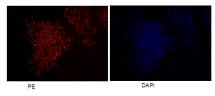
Immunohistochemical analysis of paraffinembedded human cervical squamous cancer tissue slide using 11064-1-AP (SOX2 antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using SOX2 antibody (11064-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using SOX2 antibody (11064-1-AP) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed U-251 cells using SOX2 antibody (11064-1-AP) at dilution of 1:200 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Confocal immunofluorescent analysis of human embronic stem cells with 11064-1-AP at dilution of 1:50. The PE shows staining with 11064-1-AP/PE. The DAPI shows nuclear staining by DAPI.

Confocal immunofluorescent analysis of human embronic stem cells with 11064-1-AP at dilution of 1:50. The PE shows staining with 11064-1-AP/PE. The DAPI shows nuclear staining by DAPI.