For Research Use Only

OTX2 Polyclonal antibody Catalog Number:13497-1-AP Featured Product



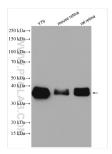


	Catalog Number: 13497-1-AP	GenBank Accession Number BC032579	Purification Method: Antigen affinity purification	
	Size: 150ul, Concentration: 700 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG4323	GeneID (NCBI): 5015 UNIPROT ID: P32243 Full Name: orthodenticle homeobox 2 Calculated MW: 297 aa, 32 kDa Observed MW:	Recommended Dilutions: WB 1:2000-1:16000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:20-1:200	
		31-35 kDa		
Applications	Tested Applications:	Positive Controls:		
	WB, IHC, FC (Intra), IP, ELISA	WB : Y79 cells, mouse retina tissue, rat retina tissue		
	Cited Applications: WB, IHC, IP, CoIP, ChIP	IP : Y	IP : Y79 cells,	
	Species Specificity: human, mouse, rat	IHC :	IHC : human gliomas tissue,	
	Cited Species:			
	human, mouse, chicken			
	Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0	vely, antigen		
Background Information	The orthodenticle homeobox 2, encoded by OTX2 gene, is a key transcription factor in developmental processes. In particular, it is required for the early specification of the brain and the embryonic development of sensory organs, including the, pineal gland, pituitary gland, inner part of the ear, eyes, and optic nerve. In later stages, it is important for maintaining intact retina and brain function. In addition, it acts as a transcriptional repressor and a gatekeeper of myogenic and neuronal differentiation in medulloblastoma cells. OTX2 binds to the MyoD1 core enhancer through its homeobox domain and the remarkable repressor activity exhibited by the homeobox domain renders OTX2 transcriptionally repressive			
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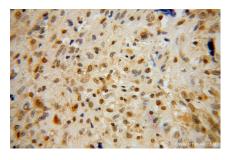
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

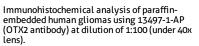
Group brand and is not available to purchase from any other manufacturer.

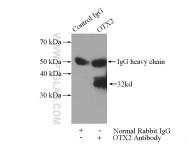
Selected Validation Data



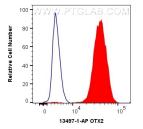
Various lysates were subjected to SDS PAGE followed by western blot with 13497-1-AP (OTX2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.







IP result of anti-OTX2 (IP:13497-1-AP, 3ug; Detection:13497-1-AP 1:1500) with Y79 cells lysate 2400ug.



1X10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human OTX2 (13497-1-AP) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit lgG(H+L) at dilution 1:1000 (red), or 0.4 ug lsotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).