For Research Use Only

## PTCH1 Polyclonal antibody

Catalog Number:17520-1-AP

Featured Product





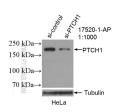
Basic Information	Catalog Number: 17520-1-AP	GenBank Accession Number NM_000264	Purification Me Antigen affinity		
	Size:	GenelD (NCBI):		Recommended Dilutions:	
	<b>480</b> µ g/ml	5727	WB 1:500-1:100	00	
	Source:	UNIPROT ID:	IHC 1:50-1:200		
	Rabbit	Q13635			
	Isotype: IgG	Full Name: patched homolog 1 (Drosophila) Calculated MW: 161 kDa			
	-				
		Observed MW:			
		161 kDa			
Applications	Tested Applications:	Posit	Positive Controls:		
	IHC, WB,ELISA	WD: mouse brain tissue, A431 cetts, r		cells, HeLa cells	
	Cited Applications: WB, IF, IHC	IHC :	IHC : human liver tissue,		
	Species Specificity: human, mouse				
	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	PTCH1 (patched homolog 1) is a twelve-pass transmembrane protein that acts as a receptor of Hedgehog signaling pathway (PMID: 8906794). Hedgehog pathway plays a critical role in embryonic development and tissue homeostasis, and its dysregulation has been implicated in many human diseases including congenital disorder ar cancer (PMID: 23719536; 23532857). In the absence of Hedgehog proteins (SHH, IHH and DHH in humans), PTCH1 represses the activity of Smoothened (SMO). Binding of Hedgehog proteins to PTCH1 inhibits the repression of SMr resulting in the activation of downstream targets through the Gli transcriptional effectors (PMID: 23719536; 17139287). The gene of PTCH1 is considered to be a tumor suppressor gene. Mutations of this gene have been associated with basal cell nevus syndrome, esophageal squamous cell carcinoma, trichoepitheliomas, transitiona cell carcinomas of the bladder, as well as holoprosencephaly.				
	Authors	Pubmed ID Journal			
Notable Publications	Author			Application	
Notable Publications	Pai Pang	26427874 Biochem Bio	phys Res Commun	Application IHC	
Notable Publications					
Notable Publications	Pai Pang		sel)	IHC	

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## Selected Validation Data



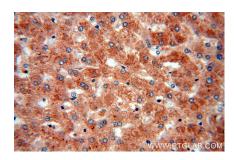
WB result of PTCH1 antibody (17520-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PTCH1 transfected HeLa cells.



mouse brain tissue were subjected to SDS PAGE followed by western blot with 17520-1-AP (PTCH1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human liver using 17520-1-AP (PTCH1 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human liver using 17520-1-AP (PTCH1 antibody) at dilution of 1:50 (under 40x lens).