For Research Use Only

PTCH1 Polyclonal antibody

Catalog Number:17520-1-AP

Featured Product

28 Publications



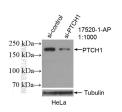
Basic Information	Catalog Number: GenBank Accession Number: 17520-1-AP NM_000264		ession Number:	Purification Method: Antigen affinity purification		
	Size:	GenelD (NCB):	Recommended Dilutions:		
	480 µ g/ml 5727			WB 1:500-1:1000 IHC 1:50-1:200		
	Source: Rabbit	UNIPROT ID: Q13635		IIIC 1.30-1.200		
	Isotype:	Full Name:				
	IgG		patched homolog 1 (Drosophila)			
		Calculated M 161 kDa	Calculated MW: 161 kDa			
		Observed MW 161 kDa	Observed MW: 161 kDa			
Applications	Tested Applications: IHC, WB,ELISA		Positive Controls:			
	Cited Applications:			ain tissue, A431 cell	s, HeLa cells	
	WB, IF, IHC	ITU: numan 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 and 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 SMO 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, transitional cell carcinomas of the bladder, as well as holoprosencephaly.					
Notable Publications	Author	Pubmed ID	Journal		Application	
	Pai Pang	26427874	Biochem Biophys Res	Commun	IHC	
	Matea Kurtović	36139698	Cancers (Basel)		WB	
	Diana Trnski	26385428	Biochim Biophys Acta		WB	
Storage	Storage: Store at -20°C. Stable for o Storage Buffer:	ne year after shipment.				

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Selected Validation Data



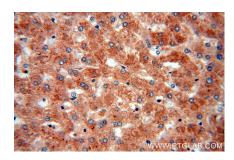
WB result of PTCH1 antibody (17520-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PTCH1 transfected HeLa cells.



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).