

For Research Use Only

# SMO Polyclonal antibody

Catalog Number: 20787-1-AP **34 Publications**



## Basic Information

<b>Catalog Number:</b> 20787-1-AP	<b>GenBank Accession Number:</b> BC009989	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 800 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6608	<b>Recommended Dilutions:</b> IHC 1:500-1:2000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q99835	
<b>Isotype:</b> IgG	<b>Full Name:</b> smoothened homolog (Drosophila)	
<b>Immunogen Catalog Number:</b> AG14322	<b>Calculated MW:</b> 787 aa, 86 kDa	

## Applications

<b>Tested Applications:</b> IHC, ELISA	<b>Positive Controls:</b> IHC : human prostate cancer tissue, human testis tissue, human colon cancer tissue, mouse testis tissue, rat testis tissue
<b>Cited Applications:</b> WB, IF, IHC	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, chicken, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Smoothened (SMO) is a G protein-coupled receptor that is a component of the hedgehog (Hh) signaling pathway and is conserved from flies to humans. The Hh pathway plays a central role in animal development and stem-cell function. Defects in Hh signaling lead to birth defects and cancer in humans. Expressed on the primary cilium, SMO interacts with the patched protein, a receptor for Hh proteins.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yu Xu	36247302	Am J Transl Res	
Lei Liu	30273566	Chem Biol Interact	
Jingkai Sun	34659903	Am J Cancer Res	IHC

## Storage

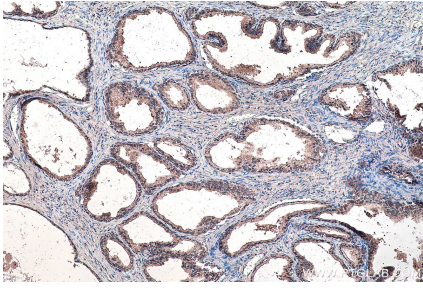
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

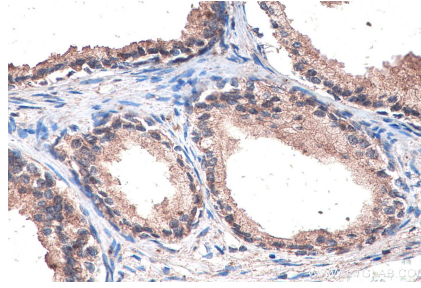
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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 20787-1-AP (SMO antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 20787-1-AP (SMO antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).