

For Research Use Only

# SHH Polyclonal antibody

Catalog Number: 29752-1-AP



## Basic Information

<b>Catalog Number:</b> 29752-1-AP	<b>GenBank Accession Number:</b> NM_000193	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 500 µg/ml	<b>GeneID (NCBI):</b> 6469	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q15465	
<b>Isotype:</b> IgG	<b>Full Name:</b> sonic hedgehog homolog (Drosophila)	
<b>Immunogen Catalog Number:</b> AG31338	<b>Calculated MW:</b> 50 kDa	
	<b>Observed MW:</b> 50-60 kDa	

## Applications

### Tested Applications:

WB, IHC, ELISA

### Species Specificity:

Human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** HeLa cells, HepG2 cells, MCF-7 cells, MDA-MB-231 cells, mouse liver tissue, rat liver tissue

**IHC:** mouse embryo tissue,

## Background Information

SHH, Sonic hedgehog protein, binds to the patched (PTCH1) receptor, which functions in association with smoothened (SMO), to activate the transcription of target genes (PMID: 10753901). In the absence of SHH, PTCH1 represses the constitutive signaling activity of SMO (PMID: 10753901). SHH is synthesized as a 45 kDa precursor that undergoes an autocatalytic processing event that produces a 19 kDa N-terminal product, responsible for all signaling activities, and a 25 kDa C-terminal fragment (PMID: 10753901, PMID: 16282375).

## 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

For technical support and original validation data for this product please contact:

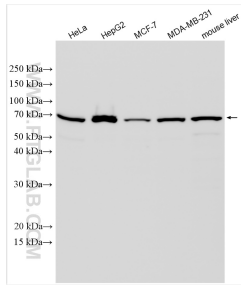
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

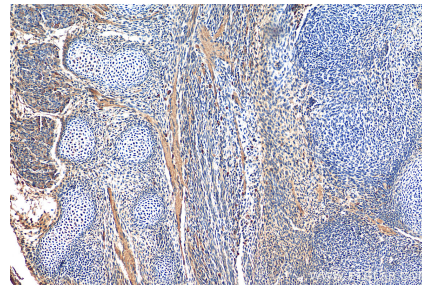
W: [ptgcn.com](http://ptgcn.com)

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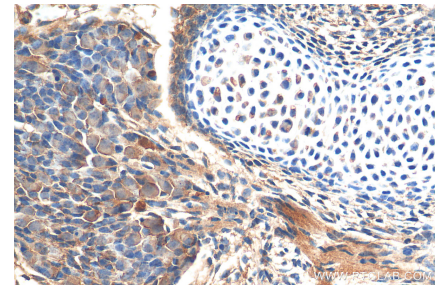
## Selected Validation Data



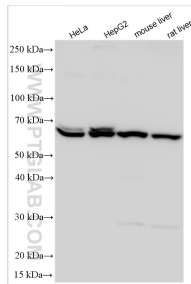
Various lysates were subjected to SDS PAGE followed by western blot with 29752-1-AP (SHH antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse embryo tissue slide using 29752-1-AP (SHH antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse embryo tissue slide using 29752-1-AP (SHH antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 29752-1-AP (SHH antibody) at dilution of 1:18000 incubated at room temperature for 1.5 hours.