

# Sonic Hedgehog (Shh) Rabbit pAb

Catalog No.: A0095

1 Publications

## Basic Information

**Observed MW**

50kDa

**Calculated MW**

50kDa

**Category**

Primary antibody

**Applications**

WB

**Cross-Reactivity**

Mouse

## Background

This gene encodes a protein that is instrumental in patterning the early embryo. It has been implicated as the key inductive signal in patterning of the ventral neural tube, the anterior-posterior limb axis, and the ventral somites. Of three human proteins showing sequence and functional similarity to the sonic hedgehog protein of *Drosophila*, this protein is the most similar. The protein is made as a precursor that is autocatalytically cleaved; the N-terminal portion is soluble and contains the signalling activity while the C-terminal portion is involved in precursor processing. More importantly, the C-terminal product covalently attaches a cholesterol moiety to the N-terminal product, restricting the N-terminal product to the cell surface and preventing it from freely diffusing throughout the developing embryo. Defects in this protein or in its signalling pathway are a cause of holoprosencephaly (HPE), a disorder in which the developing forebrain fails to correctly separate into right and left hemispheres. HPE is manifested by facial deformities. It is also thought that mutations in this gene or in its signalling pathway may be responsible for VACTERL syndrome, which is characterized by vertebral defects, anal atresia, tracheoesophageal fistula with esophageal atresia, radial and renal dysplasia, cardiac anomalies, and limb abnormalities. Additionally, mutations in a long range enhancer located approximately 1 megabase upstream of this gene disrupt limb patterning and can result in preaxial polydactyly.

## Recommended Dilutions

WB 1:200 - 1:2000

## Immunogen Information

**Gene ID**

6469

**Swiss Prot**

Q15465

**Immunogen**

A synthetic peptide of human Sonic Hedgehog (Sonic Hedgehog (Shh))

**Synonyms**

TPT; HHG1; HLP3; HPE3; SMMCI; ShhNC; TPTPS; MCOPCB5; Sonic Hedgehog (Shh)

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

Affinity purification

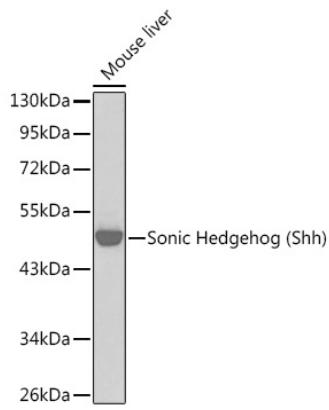
**Storage**

Store at 4°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, pH7.3.

## Validation Data

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Western blot analysis of lysates from mouse liver, using Sonic Hedgehog (Shh) Rabbit pAb (A0095).  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.