10320 Camino Santa Fe, Suite G
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SHH Polyclonal Antibody
Purified Rabbit Polyclonal Antibody
Catalog # ABV11676

Specification

SHH Polyclonal Antibody - Product Information

Application	**WB**
Primary Accession	Q62226
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**47773**

SHH Polyclonal Antibody - Additional Information

Gene ID 20423

Other Names
Sonic hedgehog protein, HHG-1, SHH

Target/Specificity
SHH

Formulation
100 µg (0.5 mg/ml) of antibody in PBS pH 7.2, 0.01 % BSA, 0.03 % ProClin®, and 50 % glycerol.

Handling
The antibody solution should be gently mixed before use.

Background Descriptions

Precautions
SHH Polyclonal Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

SHH Polyclonal Antibody - Protein Information

Name Shh {ECO:0000312|MGI:MGI:98297}

Synonyms Hhg1

Function
[Sonic hedgehog protein]: The C-terminal part of the sonic hedgehog protein precursor displays an autoproteolysis and a cholesterol transferase activity (PubMed:8824192, PubMed:7891723, PubMed:<a

href="http://www.uniprot.org/citations/7736596" target="_blank">7736596). Both activities result in the cleavage of the full- length protein into two parts (ShhN and ShhC) followed by the covalent attachment of a cholesterol moiety to the C-terminal of the newly generated ShhN (PubMed:8824192). Both activities occur in the reticulum endoplasmic (PubMed:21357747). Once cleaved, ShhC is degraded in the endoplasmic reticulum (PubMed:21357747).

Cellular Location
[Sonic hedgehog protein]: Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q15465}. Golgi apparatus membrane {ECO:0000250|UniProtKB:Q15465}. Note=Co-localizes with HHAT in the ER and Golgi membrane. {ECO:0000250|UniProtKB:Q15465}

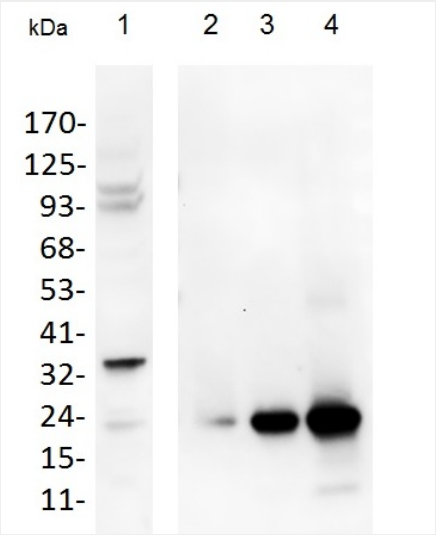
Tissue Location
Expressed in a number of embryonic tissues including the notochord, ventral neural tube, floor plate, lung bud, zone of polarizing activity and posterior distal mesenchyme of limbs In the adult, expressed in lung and neural retina

SHH Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SHH Polyclonal Antibody - Images



1. Jurkat cells; 2. 2ng human SHH recombinant protein; 3. 10ng human SHH recombinant protein; 4. 50ng human SHH recombinant protein;

SHH Polyclonal Antibody - Background

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Intercellular signal essential for a variety of patterning events during development: signal produced by the notochord that induces ventral cell fate in the neural tube and somites, and the polarizing signal for patterning of the anterior-posterior axis of the developing limb bud. Displays both floor plate- and motor neuron-inducing activity. The threshold concentration of N-product required for motor neuron induction is 5-fold lower than that required for floor plate induction. Activates the transcription of target genes by interacting with its receptor PTCH1 to prevent normal inhibition by PTCH1 on the constitutive signaling activity of SMO.