10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Sonic Hedgehog Antibody

Rabbit mAb
Catalog # AP90139

Product Information

Application	WB, IHC, IF, FC, ICC, IHF
Primary Accession	Q15465
Reactivity	Human
Clonality	Monoclonal
Other Names	TPT; HHG1; HLP3; HPE3; SMMCI; TPTPS; MCOPCB5; Sonic Hedgehog;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	49607

Additional Information

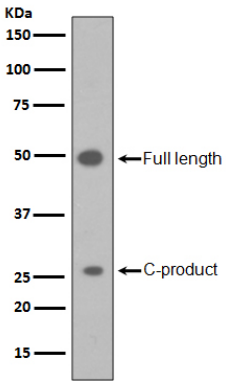
Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 FC 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Sonic Hedgehog
Description	This gene encodes a protein that is instrumental in patterning the early embryo. It has been implicated as the key inductive 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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	SHH {ECO:0000303|PubMed:7590746, ECO:0000312|HGNC:HGNC:10848}
Function	[Sonic hedgehog protein]: Precursor of sonic hedgehog, a morphogen that activates the smoothened signaling pathway, and which is essential for a variety of patterning events during development (PubMed:29954986, PubMed:29995851, PubMed:30139912, PubMed:31127104, PubMed:31548691). The C-terminal part of the precursor displays an autoproteolysis and a cholesterol transferase activity, resulting (1) in the cleavage of the full-length protein into two parts, Sonic hedgehog protein N-product and C-product (ShhN and ShhC, respectively) and (2) covalent attachment of a cholesterol moiety to the C-terminus of the newly generated ShhN (By similarity). Both autoproteolysis and a cholesterol transferase activities occur in the endoplasmic reticulum (By similarity). Following additional lipidation, ShhN acts as a morphogen, while ShhC is degraded in the endoplasmic reticulum (By similarity).

Cellular Location	[Sonic hedgehog protein]: Endoplasmic reticulum membrane. Golgi apparatus membrane. Note=Co-localizes with HHAT in the ER and Golgi membrane.

Images



Western blot analysis of Sonic Hedgehog in HepG2 cell lysate.

Image not found : 202311/AP90139-IHC.jpg

Immunohistochemical analysis of paraffin-embedded human endometrium, using Sonic Hedgehog Antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.