

Anti-Sonic Hedgehog Antibody

Catalog # ABO10556

Product Information

Application	WB, IHC-P
Primary Accession	Q15465
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Sonic hedgehog protein(SHH) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	6469
Other Names	Sonic hedgehog protein, SHH, HHG-1, Sonic hedgehog protein N-product, Sonic hedgehog protein C-product, SHH
Calculated MW	49607
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Rat, Mouse, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Rat, Mouse
Subcellular Localization	Sonic hedgehog protein C-product: Secreted, extracellular space . The C-terminal peptide diffuses from the cell. .
Tissue Specificity	Expressed in fetal intestine, liver, lung, and kidney. Not expressed in adult tissues.
Source	Eukaryota
Protein Name	Sonic hedgehog protein
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Sonic Hedgehog(203-218aa ATVHLEQGGTKLVKDL), identical to the related rat and mouse sequences.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20° C for one year. After r° Constitution, at 4° C for one month. It° Can also be aliquotted and stored frozen at -20° C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the hedgehog family.

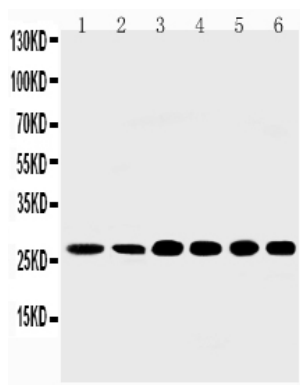
Protein Information

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.

Background

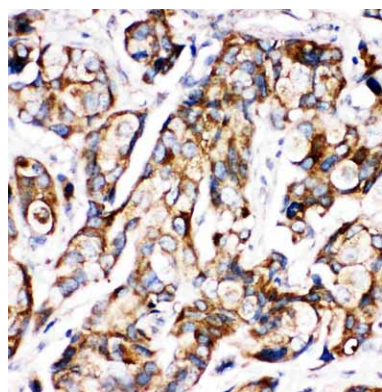
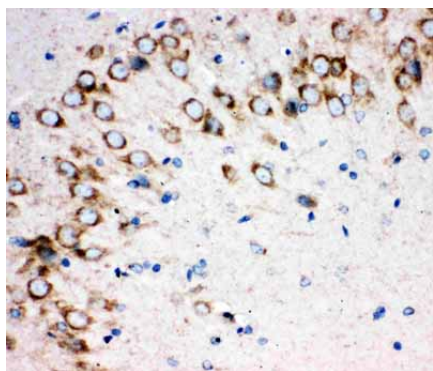
The mouse, chicken, and zebrafish Shh homologs are highly conserved. SHH expression was not detected in adult tissues examined. However, it was expressed in fetal intestine, liver, lung, and kidney. SHH gene is mapped to 7q. SHH mutations are not a frequent cause of isolated oral clefts.

Images



Anti-Sonic Hedgehog antibody, ABO10556, Western blotting
Lane 1: Rat Liver Tissue Lysate
Lane 2: Rat Intestine Tissue Lysate
Lane 3: HELA Cell Lysate
Lane 4: A549 Cell Lysate
Lane 5: SMMC Cell Lysate
Lane 6: MM231 Cell Lysate

Anti-Sonic Hedgehog antibody, ABO10556, IHC(P)
IHC(P): Rat Brain Tissue



Anti-Sonic Hedgehog antibody, ABO10556, IHC(P)IHC(P):
Human Mammary Tissue

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