10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.622.0609

Anti-Sonic Hedgehog Antibody

Catalog # ABO10556

Specification

Anti-Sonic Hedgehog Antibody - Product Information

Application	WB, IHC
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.

Anti-Sonic Hedgehog Antibody - Additional Information

Gene ID 6469

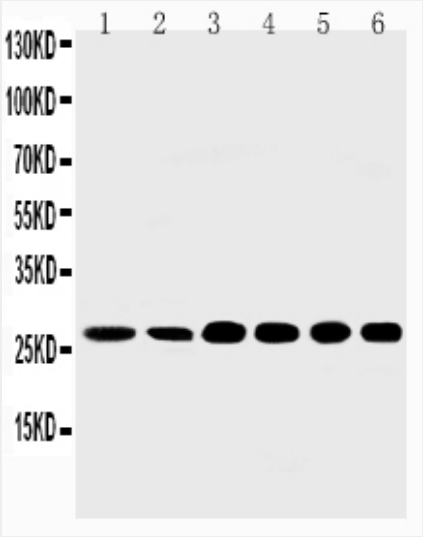
Other Names
Sonic hedgehog protein, SHH, HHG-1, Sonic hedgehog protein N-product, Sonic hedgehog protein C-product, SHH

Calculated MW
49607 MW KDa

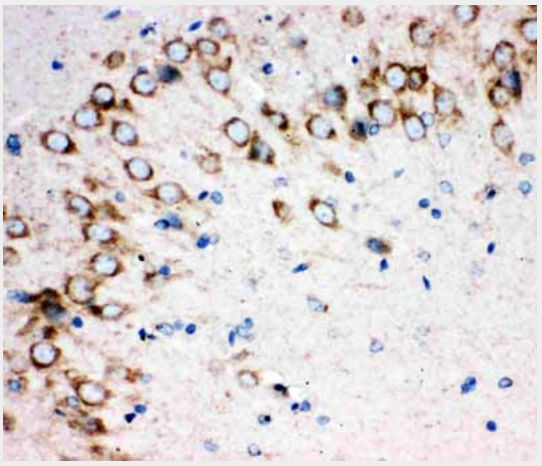
Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

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.



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



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

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Protein Name
Sonic hedgehog protein

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

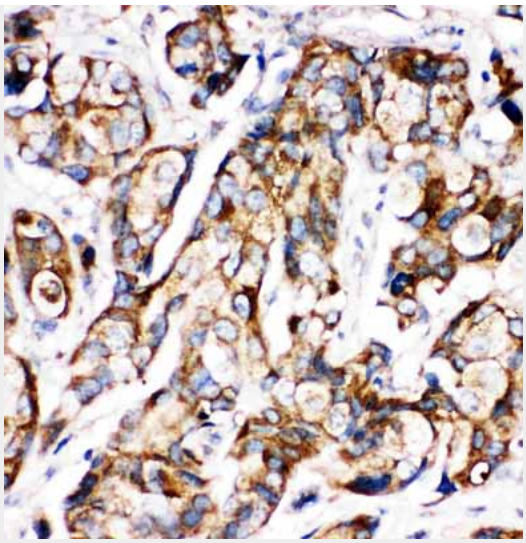
Immunogen
A synthetic peptide corresponding to a sequence at the N-terminus of human Sonic Hedgehog(203-218aa ATVHLEQGGTKLVKDL), identical to the related rat and mouse sequences.

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.



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

Anti-Sonic Hedgehog Antibody - 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.

Anti-Sonic Hedgehog Antibody - Protein Information

Name SHH (HGNC:10848)

Function
[Sonic hedgehog protein]: The C-terminal part of the sonic hedgehog protein precursor displays an autoproteolysis and a cholesterol transferase activity (By similarity). 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 (By similarity). Both activities occur in the reticulum endoplasmic (By similarity). Once cleaved, ShhC is degraded in the endoplasmic reticulum (By similarity).

Cellular Location

[Sonic hedgehog protein N-product]: Cell membrane {ECO:0000250|UniProtKB:Q62226}; Lipid-anchor {ECO:0000250|UniProtKB:Q62226}. Note=The dual-lipidated sonic hedgehog protein N-product (ShhNp) is firmly tethered to the cell membrane where it forms multimers (PubMed:24522195). Further solubilization and release from the cell surface seem to be achieved through different mechanisms, including the interaction with DISP1 and SCUBE2, movement by lipoprotein particles, transport by cellular extensions called cytonemes or by the proteolytic removal of both terminal lipidated peptides (PubMed:26875496, PubMed:24522195)

Anti-Sonic Hedgehog 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