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KD-Validated Anti-Sonic Hedgehog Signaling Molecule Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1761

Specification

KD-Validated Anti-Sonic Hedgehog Signaling Molecule Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q15465
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 50 kDa , observed , 51 kDa KDa**
Gene Name	**SHH**
Aliases	**SHH; Sonic Hedgehog Signaling Molecule; MCOPCB5; SMMCI; TPTPS; HHG1; TPT; Shh Unprocessed N-Terminal Signaling And C-Terminal Autoprocessing Domains; Sonic Hedgehog Protein; ShhNC; HLP3; HPE3; Sonic Hedgehog (Drosophila) Homolog; Sonic Hedgehog Homolog; EC 3.1.-.-; HHG-1**
Immunogen	**A synthesized peptide derived from human Sonic Hedgehog**

KD-Validated Anti-Sonic Hedgehog Signaling Molecule Rabbit Monoclonal Antibody - Additional Information

Gene ID	**6469**

Other Names
Sonic hedgehog protein, SHH, 3.1.-.-, HHG-1, Shh unprocessed N-terminal signaling and C-terminal autoprocessing domains, ShhNC, Sonic hedgehog protein N-product, ShhN, Shh N-terminal processed signaling domains, ShhNp, SHH (HGNC:10848)

KD-Validated Anti-Sonic Hedgehog Signaling Molecule Rabbit Monoclonal 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 endoplasmic reticulum (By similarity). Once cleaved, ShhC is degraded in the endoplasmic reticulum (By similarity).

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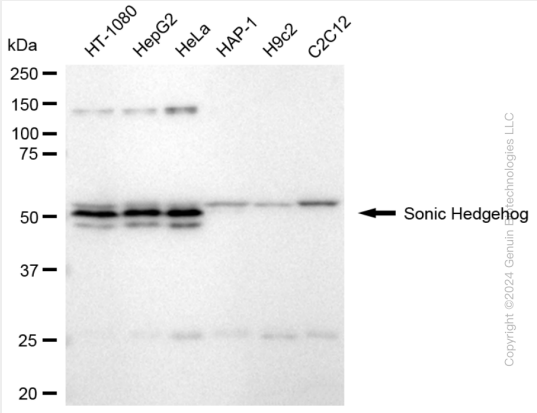
Cellular Location
[Sonic hedgehog protein]: Endoplasmic reticulum membrane. Golgi apparatus membrane. Secreted Note=Co-localizes with HHAT in the ER and Golgi membrane

KD-Validated Anti-Sonic Hedgehog Signaling Molecule Rabbit Monoclonal Antibody - Protocols

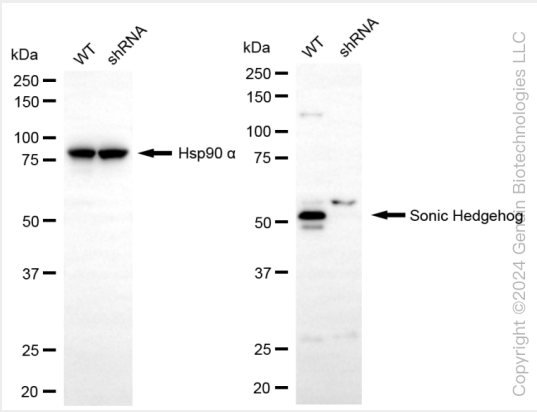
Provided below are standard protocols that you may find useful for product applications.

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

KD-Validated Anti-Sonic Hedgehog Signaling Molecule Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-sonic hedgehog antibody (Cat#AGI1761). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-sonic hedgehog antibody (Cat#AGI1761, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-sonic hedgehog antibody (Cat#AGI1761). sonic hedgehog

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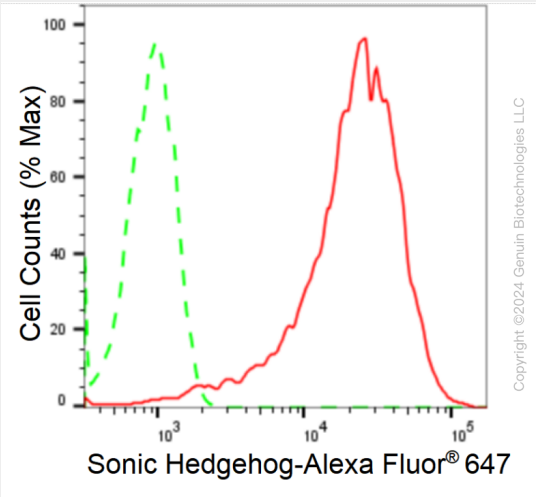
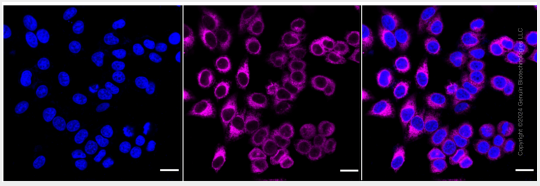
expression in wild-type (WT) and SHH shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-sonic hedgehog antibody (Cat#AGI1761, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Sonic Hedgehog expression in HepG2 cells using anti-Sonic Hedgehog antibody (Cat#AGI1761, 1:2,000). Green, isotype control; red, Sonic Hedgehog.



Immunocytochemical staining of HepG2 cells with anti-Sonic Hedgehog antibody (Cat#AGI1761, 1:1,000). Nuclei were stained blue with DAPI; Sonic Hedgehog was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.