

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

Rabbit monoclonal antibody

Catalog # AGI1761

Product Information

Application	WB, FC, ICC
Primary Accession	Q15465
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB1925
Calculated MW	49607
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

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)

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.

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