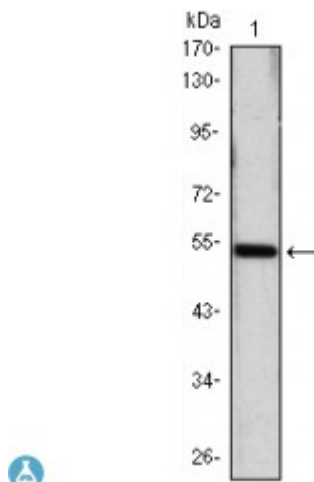


Anti-Shh antibody



Description	Mouse monoclonal to Shh.
Model	STJ98379
Host	Mouse
Reactivity	Human
Applications	ELISA, WB
Immunogen	Purified recombinant fragment of human Shh expressed in E. Coli.
Gene ID	6469
Gene Symbol	SHH
Dilution range	WB 1:500-1:2000ELISA 1:10000
Specificity	Shh Monoclonal Antibody detects endogenous levels of Shh protein.
Tissue Specificity	Expressed in fetal intestine, liver, lung, and kidney. Not expressed in adult tissues.
Purification	Affinity purification
Clone ID	8G3
Note	For Research Use Only (RUO).
Protein Name	Sonic hedgehog protein SHH 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
Clonality	Monoclonal
Conjugation	Unconjugated

Isotype	IgG1
Formulation	Ascitic fluid containing 0.03% sodium azide.
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:10848OMIM:135750
Alternative Names	Sonic hedgehog protein SHH 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
Function	Intercellular signal essential for a variety of patterning events during development: signal produced by the notochord that induces ventral cell fate in the neural tube and somites, and the polarizing signal for patterning of the anterior-posterior axis of the developing limb bud. Displays both floor plate- and motor neuron-inducing activity. The threshold concentration of N-product required for motor neuron induction is 5-fold lower than that required for floor plate induction. Activates the transcription of target genes by interacting with its receptor PTCH1 to prevent normal inhibition by PTCH1 on the constitutive signaling activity of SMO .
Sequence and Domain Family	The sonic hedgehog protein N-product binds calcium and zinc ions; this stabilizes the protein fold and is essential for protein-protein interactions mediated by this domain.
Cellular Localization	Sonic hedgehog protein C-product: Secreted, extracellular space. The C-terminal peptide diffuses from the cell. Sonic hedgehog protein N-product: Cell membrane. The N-product either remains associated with lipid rafts at the cell surface, or forms freely diffusible active multimers with its hydrophobic lipid-modified N- and C-termini buried inside.
Post-translational Modifications	The C-terminal domain displays an autoproteolysis activity and a cholesterol transferase activity. Both activities result in the cleavage of the full-length protein and covalent attachment of a cholesterol moiety to the C-terminal of the newly generated N-terminal fragment (N-product). The N-product is the active species in both local and long-range signaling, whereas the C-product has no signaling activity.; Cholesterylation is required for N-product targeting to lipid rafts and multimerization. N-palmitoylation of Cys-24 by HHAT is required for N-product multimerization and full activity.