SHH Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	SHH, Monoclonal Antibody
Full Product Name	Mouse Monoclonal Antibody to SHH
Product Gene Name	anti-SHH antibody
Product Synonym Names	TPT; HHG1; HLP3; HPE3; SMMCI; TPTPS; MCOPCB5
Clonality	Monoclonal
Isotype	IgG1
Clone Number	5H4A9
Host	Mouse
Molecular Weight	49.6kDa
OMIM	135750
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SHH antibody	Western Blot (WB), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS)
Application Notes for anti-SHH antibody	Western blot using Recombinant protein Western blot using Cell lysate
Related Product Information for anti-SHH antibody	MBS8527618 is an antibody targeting SHH. Also known as Mouse Monoclonal Antibody to SHH. Host: Mouse.
Other Notes	Small volumes of anti-SHH antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SHH. It may not necessarily be applicable to this product.

NCBI GI #	38373944
NCBI GeneID	6469
NCBI Accession #	AAR19208.1
UniProt Secondary Accession #	Q75MC9; A4D247
UniProt Related Accession #	Q15465
NCBI Official Full Name	SHH
NCBI Official Synonym Full Names	sonic hedgehog
NCBI Official Symbol	SHH
NCBI Official Synonym Symbols	TPT; HHG1; HLP3; HPE3; SMMCI; ShhNC; TPTPS; MCOPCB5
UniProt Protein Name	Sonic hedgehog protein
UniProt Synonym Protein Names	Sonic hedgehog protein N-product; ShhN

Protein Family	Sonic hedgehog protein
UniProt Gene Name	SHH
UniProt Synonym Gene Names	ShhNp
NCBI Protein Information	sonic hedgehog protein
NCBI Summary for SHH	This gene encodes a protein that is instrumental in patterning the early embryo. It has been implicated as the key inductive signal in patterning of the ventral neural tube, the anterior-posterior limb axis, and the ventral somites. Of three human proteins showing sequence and functional similarity to the sonic hedgehog protein of Drosophila, this protein is the most similar. The protein is made as a precursor that is autocatalytically cleaved; the N-terminal portion is soluble and contains the signalling activity while the C-terminal portion is involved in precursor processing. More importantly, the C-terminal product covalently attaches a cholesterol moiety to the N-terminal product, restricting the N-terminal product to the cell surface and preventing it from freely diffusing throughout the developing embryo. Defects in this protein or in its signalling pathway are a cause of holoprosencephaly (HPE), a disorder in which the developing forebrain fails to correctly separate into right and left hemispheres. HPE is manifested by facial deformities. It is also thought that mutations in this gene or in its signalling pathway may be responsible for VACTERL syndrome, which is characterized by vertebral defects, anal atresia, tracheoesophageal fistula with esophageal atresia, radial and renal dysplasia, cardiac anomalies, and limb abnormalities. Additionally, mutations in a long range enhancer located approximately 1 megabase upstream of this gene disrupt limb patterning and can result in preaxial polydactyly. [provided by RefSeq, Jul 2008]
UniProt Comments for SHH	Sonic hedgehog protein: The C-terminal part of the sonic hedgehog protein precursor displays an autoproteolysis and a cholesterol transferase activity (). 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 (). Both activities occur in the reticulum endoplasmic (). Once cleaved, ShhC is degraded in the endoplasmic reticulum ().
Research Articles on SHH	**1.** Hh signaling activation might reflect aggressive tumoral behavior, since high epithelial GLI2 expression positively correlates with a higher pathological Gleason score. Moreover, higher epithelial GLI3 expression is an independent marker of a more favorable prognosis.
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