

Anti-SHH Antibody

Catalog # AP96050

Product Information

Application	WB, IHC, FC
Primary Accession	Q15465
Reactivity	Human, Mouse, Mk
Host	Mouse
Clonality	Monoclonal
Calculated MW	49607

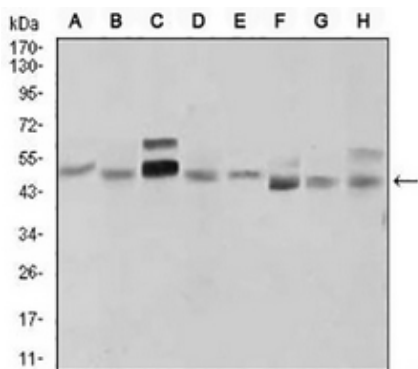
Additional Information

Gene ID	6469
Other Names	SonIC, hedgehog protein; SHH; HHG-1
Target/Specificity	Recombinant fusion protein of human SHH expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200)
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

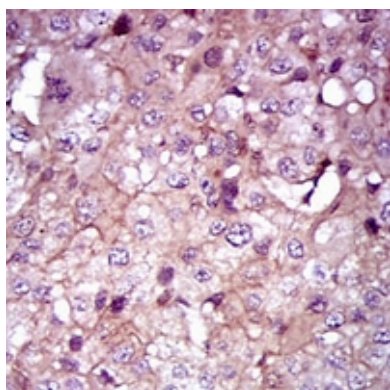
Protein Information

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.

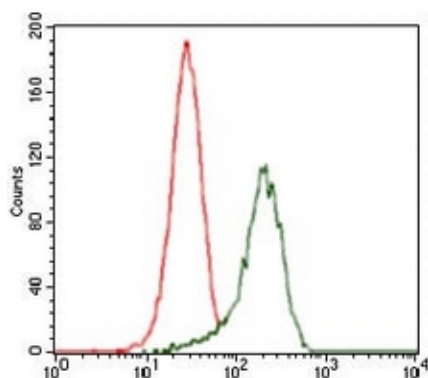
Images



Western blot analysis of SHH expression in LNCaP (A), HepG2 (B), PANC1 (C), HeLa (D), SKNSH (E), F9 (F), NIH3T3 (G), COS7 (H) whole cell lysates. (Predicted band size: 50 kD; Observed band size: 50 kD)



Immunohistochemical analysis of SHH staining in human liver cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow cytometric analysis of HeLa cells using Anti-SHH Antibody (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.