Sonic Hedgehog (Shh) Rabbit mAb

E45R12552N

Catalog Number:E45R12552N

Host Species: Rabbit

Isotype: IgG

Purification: Affinity purification

Species Reactivity: Human, Mouse, Rat

Immunogen Description:A synthesized peptide derived from human Sonic Hedgehog (Shh) (Shh)

NCBI Gene ID:6469

Storage: Store at 4°C short term. For long-term storage, aliquot and store at -20°C or below. Stable for 12 months at -20°C. Avoid repeated freeze-thaw cycles.

Cite ID#:EN5519798

Type: Monoclonal Antibodies

Positive control: HepG2, Mouse lung, Mouse liver, Rat liver, HepG2, Human plasma

Swiss-Prot No.:Q15465

Summary: 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). It is also thought that mutations in this gene or in its signalling pathway may be responsible for VACTERL syndrome. Additionally, mutations in a long range enhancer located approximately 1 megabase upstream of this gene disrupt limb patterning and can result in preaxial polydactyly.

Form: Liquid

Storage Buffer: Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

Dilution:WB 1:500 - 1:2000 IF 1:50 - 1:200

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Alternname:HHG1; HLP3; HPE3; MCOPCB5; SMMCI; TPT; TPTPS

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