003216589045 (EU)

## SHH Polyclonal Antibody

Cat \#: G-AB-02849

| Host: Rabbit | Reactivity: Human, Mouse, Rat |
| :--- | :--- |
| Isotype: IgG | Clonality: Polyclonal |

## Overview:

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.

## Gene ID:

Accession \#: NP_000184

Immunogen: Synthetic peptide of human SHH

Conjugation: Unconjugated

Swissprot: Q15465

## Calculated Molecular Weight:

## Observed Molecular Weight:

Concentration: $0.8 \mathrm{mg} / \mathrm{mL}$

Buffer: PBS with 0.05\% sodium azide and 50\% glycerol, PH7.4
Purification Method: Affinity purification

Application: IHC,ELISA

Dilution: IHC 1:50-1:100

Storage: Store at $-20^{\circ} \mathrm{C}$. Avoid freeze / thaw cycles.

