

## Mouse Monoclonal Antibody to SHH

Catalogue Number	sAP-0409
Target Molecule	<b>Name:</b> SHH <b>Aliases:</b> TPT; HHG1; HLP3; HPE3; SMMCI; TPTPS; MCOPCB5; SHH <b>MW:</b> 49.6kDa <b>Entrez Gene ID:</b> 6469
Description	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 <i>Drosophila</i> , 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
Immunogen	Purified recombinant fragment of human SHH expressed in E. Coli.
Recitative Species	Human
Clone	MM8G3;
Size and Concentration	100µg/1mg/ml
Supplied as	Lyophilized Powder from 100µl of Ascitic fluid containing 0.03% sodium azide.
Reconstitution/Storages	Reconstituted with 100µl sterile DI H <sub>2</sub> O, at stored at 4°C or -20°C for short or long term storage
Applications	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000
Shipping	Regular FEDEX overnight shipment (ambient temperature)
Reference	1. Cancer Lett. 2010 Jan 1;287(1):44-53. ; 2. Oncogene. 2009 Oct 8;28(40):3513-25. ; 3. J Biol Chem. 2009 Nov 20;284(47):32562-71.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**