



Anti-SHH monoclonal antibody, clone 282129 (DCABH-8992)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Rat monoclonal to Sonic Hedgehog
Antigen Description	Binds to the patched (PTC) receptor, which functions in association with smoothened (SMO), to activate the transcription of target genes. In the absence of SHH, PTC represses the constitutive signaling activity of SMO. Also regulates another target, the gli oncogene. Intercellular signal essential for a variety of patterning events during development: signal produced by the notochord that induces ventral cell fate in the neural tube and somites, and the polarizing signal for patterning of the anterior-posterior axis of the developing limb bud. Displays both floor plate- and motor neuron-inducing activity. The threshold concentration of N-product required for motor neuron induction is 5-fold lower than that required for floor plate induction.
Specificity	This antibody recognizes N-terminal peptide. In immunoblotting, the antibody show approximately 50% crossreactivity with the N-terminal peptide from recombinant mouse Desert hedgehog (Dhh) (amino acids 23-198)
Immunogen	Purified, E. coli-derived, recombinant mouse sonic hedgehog N-terminal peptide (amino acids 25-198).
Isotype	IgG2a
Source/Host	Rat
Species Reactivity	Mouse
Clone	282129
Conjugate	Unconjugated
Applications	ELISA, IHC, Neut, WB

Positive Control	Frozen mouse embryo sections.
Format	Liquid
Size	100 µg
Buffer	5% Trehalose, PBS
Preservative	None
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	Shh sonic hedgehog [Mus musculus]
Official Symbol	SHH
Synonyms	SHH; sonic hedgehog; sonic hedgehog protein; HHG-1; short digits; hemimelic extra toes; Hx; Dsh; Hhg1; Hxl3; M100081; 9530036O11Rik;
Entrez Gene ID	20423
Protein Refseq	NP_033196
UniProt ID	Q62226
Pathway	Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Dopaminergic Neurogenesis, organism-specific biosystem; Hedgehog Signaling Pathway, organism-specific biosystem; Hedgehog signaling pathway, organism-specific biosystem; Hedgehog signaling pathway, conserved biosystem; Pathways in cancer, organism-specific biosystem;
Function	calcium ion binding; glycoprotein binding; glycosaminoglycan binding; NOT hydrolase activity; laminin-1 binding; patched binding; patched binding; peptidase activity; protein binding; signal transducer activity; zinc ion binding;