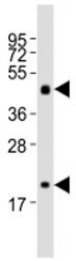
Shh Antibody / Sonic Hedgehog (F53217)

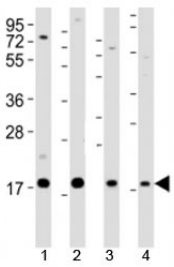
Catalog No.	Formulation	Size
F53217-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F53217-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q62226
Applications	Western Blot : 1:1000-2000
Limitations	This Shh antibody is available for research use only.



Western blot testing of Shh antibody at 1:2000 dilution + mouse stomach lysate; Predicted molecular weight: 45/27/19 kDa (1)



Western blot testing of Shh antibody at 1:2000 dilution. Lane 1: F9 lysate; 2: mouse stomach lysate; 3: NIH3T3 lysate; 4: rat liver lysate; Predicted molecular weight: 45/27/19 kDa (1)

Description

Sonic hedgehog intercellular signaling is 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. Activates the transcription of target genes by interacting with its receptor PTCH1 to prevent normal inhibition by PTCH1 on the constitutive signaling activity of SMO. [UniProt]

Application Notes

Titration of the Shh antibody may be required due to differences in protocols and secondary/substrate sensitivity.

1. The 45 kDa precursor protein autocleaves into 27 kDa amino and 19 kDa carboxy fragments.

Immunogen

This mouse Shh antibody was produced from a rabbit immunized with a KLH conjugated synthetic peptide between 58-91 amino acids from the N-terminal region of mouse Sonic hedgehog.

Storage

Aliquot the Shh antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.