



Anti-Mouse Sonic Hedgehog (Shh) C-terminal (#4A37)

20150116ML



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	103-M269
Size:	100 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat immunized with purified mouse recombinant Sonic Hedgehog (Shh) C-Terminal fragment. The IgG2 fraction of the culture supernatant was purified by Protein A/G affinity chromatography.

Target Background

Synonyms (Target):	Shh; Hx; Dsh; Hhg1; Hxl3; M100081; 9530036O11Rik
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Human Shh cDNA encodes a 462 amino acid (aa) residue (45 kDa) precursor protein with a 23 aa signal peptide. An autocatalytic cleavage reaction yields a 19 kDa (residues 24 - 197) amino-terminal fragment (Shh-N), and a 25 kDa (residues 198 - 462) carboxy-terminal domain (Shh-C). The N-terminal domain retains all known signaling capabilities, while the C-terminal domain is responsible for the intramolecular processing, acting as a cholesterol transferase that covalently transfers the cholesterol molecule to the C-terminus of Shh-N. When Shh is expressed in insect or mammalian cells, a palmitoyl group is also attached to the N-terminal cysteine of Shh-N via an amide linkage.

Database References Target

Protein RefSeq:	NP_033196.1
Uniprot ID:	Q62226
mRNA RefSeq:	NM_009170.3

Product Specifications

Host	Rat
Reactivity against	Mouse
Clonality	Monoclonal Antibody
Clone	(#4A37)
Isotype	IgG2
Purification	Protein G chromatography
Antigen	recombinant mouse Shh (C-terminal) fragment
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody detects mouse Shh, but not Dhh or Ihh in Western blotting.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

The antibody can be used within the following applications:
WB

Recommended usage:

WB:1:500-1000

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!