

## DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects recombinant mouse Shh C-terminal peptide in direct ELISAs and Western blots. Does not cross-react in direct ELISAs with rmdhh C- or N-terminal peptides, rmlhh C- or N-terminal peptides, rhShh N-terminal peptide, or rmShh N-terminal peptide.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 55626
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse Sonic Hedgehog Cys199-Ser437 Accession # Q62226.1
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the [Technical Information](#) section on our website.

	Recommended Concentration	Sample
<b>Western Blot</b>	1 µg/mL	Recombinant Mouse Sonic Hedgehog C-Terminus

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

Sonic Hedgehog (Shh) is a hedgehog protein that is instrumental in patterning the early embryo. It is cleaved by autoproteolysis to release an N-terminal signaling peptide that binds the multicomponent receptor complex containing the multi-pass transmembrane proteins Patched and Smoothed. The C-terminal peptide carries the protease domain which acts only in CIS. It also acts on a cholesterol transferase that covalently transfers the cholesterol molecule to the C-terminus of Shh-N.