

## DESCRIPTION

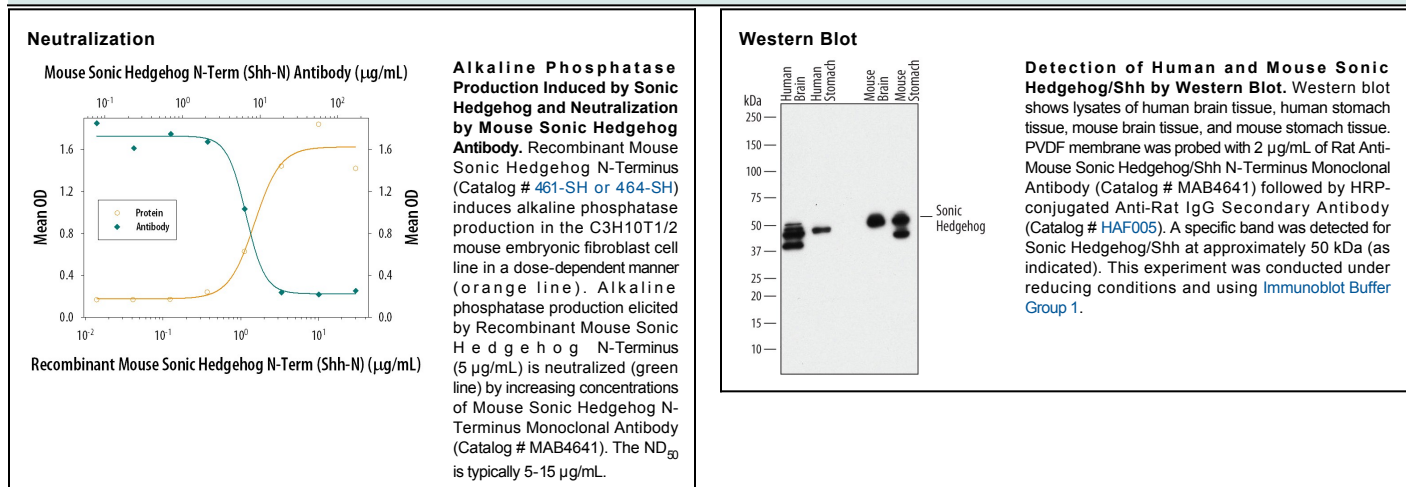
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse Sonic Hedgehog in ELISAs. In Western blots, approximately 50% cross-reactivity with recombinant mouse (rm) Dhh (N-terminus; aa 23-198) is observed and no cross-reactivity with rmlhh (N-terminus; aa 66-240), rmdhh (C-terminus; aa 199-396), or rmShh (C-terminus; aa 199 - 437) is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 171018
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse Sonic Hedgehog Cys25-Gly198 (Lys122Arg) Accession # Q62226
<b>Endotoxin Level</b>	<0.10 EU per 1 µg of the antibody by the LAL method.
<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 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>	2 µg/mL	See Below
<b>Immunohistochemistry</b>	8-25 µg/mL	Perfusion fixed frozen sections of mouse brain and embryos
<b>Mouse Sonic Hedgehog Sandwich Immunoassay</b>		<b>Reagent</b>
<b>ELISA Capture</b>	2-8 µg/mL	Mouse Sonic Hedgehog/Shh N-Terminus Antibody (Catalog # MAB4641)
<b>ELISA Detection</b>	0.5-2.0 µg/mL	Mouse Sonic Hedgehog/Shh N-Terminus Biotinylated Antibody (Catalog # BAM4642)
<b>Standard</b>		Recombinant Mouse Sonic Hedgehog/Shh N-Terminus (Catalog # 461-SH)
<b>Neutralization</b>	Measured by its ability to neutralize Sonic Hedgehog-induced alkaline phosphatase production in the C3H10T1/2 mouse embryonic fibroblast cell line. The Neutralization Dose (ND <sub>50</sub> ) is typically 5-15 µg/mL in the presence of 5 µg/mL Recombinant Mouse Sonic Hedgehog N-Terminus.	

## DATA



## 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. The N-terminal peptide of Shh is released by autoprolysis and functions through interactions with a multicomponent receptor complex containing the transmembrane proteins Patched and Smoothened.