

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Noggin in direct ELISAs and Western blots. In Western blots, this antibody shows 100% cross-reactivity with recombinant human Noggin.
Source	Monoclonal Rat IgG _{2B} Clone # 426303
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Noggin Leu20-Cys232 Accession # P97466
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

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
Western Blot	1 µg/mL	Recombinant Mouse Noggin (Catalog # 1967-NG)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month from date of receipt, 2 to 8 °C, reconstituted. ● 6 months from date of receipt, -20 to -70 °C, reconstituted.

BACKGROUND

Noggin is a 232 amino acid (aa), ~31 kDa homodimer-forming glycoprotein that is an antagonist of bone morphogenetic proteins (BMPs). Noggin is expressed in defined areas during development and in the adult central nervous system and peripheral tissues such as lung, skeletal muscle, and skin. It is important for neural tube, somite and cardiomyocyte growth and patterning, and for limiting chondrocyte growth. Noggin is secreted but probably remains close to the cell surface due to its binding of heparin-containing proteoglycans. Mature human, mouse, and rat Noggin share 99% aa sequence identity.