**DESCRIPTION**

**Species Reactivity**: Mouse

**Specificity**: Detects mouse Noggin in direct ELISAs and Western blots. In direct ELISAs, approximately 30% cross-reactivity with recombinant human Noggin is observed.

**Source**: Polyclonal Goat IgG

**Purification**: Antigen Affinity-purified

**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**

<table>
<thead>
<tr>
<th>Sample</th>
<th>Western Blot</th>
<th>Immunocytochemistry</th>
<th>Immunohistochemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recombinant Mouse Noggin (Catalog # 1967-NG)</td>
<td>0.1 μg/mL</td>
<td>5-15 μg/mL</td>
<td>5-15 μg/mL</td>
</tr>
</tbody>
</table>

**DATA**

**Background**

Noggin was originally cloned based on its dorsalizing activity in Xenopus embryos. Mammalian Noggins were subsequently identified and cloned from human, mouse and rat cDNA libraries. Mouse Noggin cDNA encodes a 232 amino acid (aa) residue precursor protein with 19 aa residue putative signal peptide that is cleaved to generate the 213 aa residue mature protein which is secreted as a homodimeric glycoprotein. Noggin is a highly conserved molecule. Mature mouse Noggin shares 99% and 83% aa sequence identity with human and Xenopus Noggin, respectively. Noggin has a complex pattern of expression during embryogenesis. In the adult, Noggin is expressed in the central nervous system and in several adult peripheral tissues such as lung, skeletal muscle and skin. Noggin has been shown to be a high-affinity BMP (bone morphogenetic protein) binding protein that antagonizes BMP bioactivities.

**References**:


**PREPARATION AND STORAGE**

**Reconstitution**: Reconstitute at 0.2 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**: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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**References**: