

#### DESCRIPTION

|                           |                                                                                                                                                                                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                   |
| <b>Specificity</b>        | Detects mouse Noggin in direct ELISAs and Western blots. In direct ELISAs, approximately 30% cross-reactivity with recombinant human Noggin is observed.                                                |
| <b>Source</b>             | Polyclonal Goat IgG                                                                                                                                                                                     |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                               |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant mouse Noggin<br>Leu20-Cys232<br>Accession # P97466                                                                                                      |
| <b>Conjugate</b>          | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 nm                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                                                                                                                                            |
|                           | *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### 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.

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>         | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunocytochemistry</b>  | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### 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.

#### PRODUCT SPECIFIC NOTICES

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