

DESCRIPTION

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| Species Reactivity | Mouse |
| Specificity | Detects mouse NgR in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody does not cross-react with recombinant human NgR. |
| Source | Monoclonal Rat IgG _{2B} Clone # 202604 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant mouse NgR Cys27-Ser447 Accession # Q99PI8 |
| Formulation | 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 |
|---------------------|---------------------------|--|
| Western Blot | 1 µg/mL | Recombinant Mouse Nogo Receptor/NgR Fc Chimera (Catalog # 1440-NG) |

PREPARATION AND STORAGE

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| 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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| 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, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

NgR, also named reticulon 4 receptor, is a glycosylphosphoinositol (GPI)-anchored protein that belongs to the family of leucine-rich repeat proteins. NgR plays an essential role in mediating axon growth inhibition induced by the myelin-derived proteins Nogo, myelin-associated glycoprotein (MAG), and myelin oligodendrocyte glycoprotein (Omgp). Upon ligand binding, NgR associates with and activates the p75 neurotrophin receptor (p75NTR), a tumor necrosis factor superfamily member (TNFRSF16).