

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Neurturin in direct ELISAs and Western blots. In direct ELISAs, approximately 80% cross-reactivity with recombinant mouse Neurturin is observed and no cross-reactivity with recombinant mouse (rm) Artemin, recombinant human (rh) Cripto-1, recombinant Drosophila DPP, rhGDNF, rhLefty A, rmLefty-1, rhMIS, rmNodal, rmPersephin, rhTGF- β 1, rhLatent TGF- β 1, rhTGF- β 1.2, rhTGF- β 2 or rhTGF- β 3 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 126422
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Neurturin Ala96-Val197 Accession # Q99748
Endotoxin Level	<0.10 EU per 1 μ g of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 μ m 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 μ m 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 μ g/mL	Recombinant Human Neurturin (Catalog # 1297-NE)
Blockade of Receptor-ligand Interaction	In a functional ELISA, 0.03-0.15 μ g/mL of this antibody will block 50% of the binding of 50 ng/mL of Recombinant Human Neurturin (Catalog # 1297-NE) to immobilized Recombinant Human GFR α -2 Fc Chimera (Catalog # 613-FR) coated at 1 μ g/mL (100 μ L/well). At 1 μ g/mL, this antibody will block >90% of the binding.	

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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
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.

BACKGROUND

Neurturin is a member of the GDNF family of ligands and is distantly related to TGF- β family ligands. It is a disulfide-linked homodimer that interacts with a receptor complex composed of a high affinity ligand binding component (GFR α 1 or GFR α 2) and a common signaling component, cRET. Neurturin promotes the survival of a variety of neurons and possibly other cell types.