Product Information

Anti-Neurturin
produced in rabbit, affinity isolated antibody
Catalog Number N0274

Synonym: Anti-NTN

Product Description
Anti-Neurturin is produced in rabbit using a peptide corresponding to amino acids 178 to 193 of human neurturin as immunogen. Anti-Neurturin recognizes human neurturin by immunoblotting.

Neurturin (NTN) is a member of the GDNF family of ligands, which includes glial cell-derived neurotrophic factor (GDNF), neurturin, persephin, and artemin. Glial cell line-derived neurotrophic factor and the related neurotrophic factor neurturin exert potent effects on the function and survival of central and peripheral neurons. Neurturin has been cloned from human and mouse. Human and mouse neurturin share 91% amino acid sequence identity. Neurturin is distantly related to the TGF-β superfamily and contains a conserved seven-cysteine motif found in all members of the TGF-β family.

The bioactivities of the GDNF family are mediated through a receptor complex composed of a high affinity ligand-binding component (GFRα1 to GFRα4) and a common signaling component RET receptor tyrosine kinase (RTK). Neurturin prefers to bind GFRα2 but can also bind GFRα1. NTN forms a complex with GFRα2 and the Ret PTK activating the RET receptor tyrosine kinase pathway. Also, NTN and GDNF activate the MAP kinase and phosphatidylinositol 3-kinase pathways. Neurturin is widely expressed in both neuronal and non-neuronal tissues and plays an important role in the development and maintenance of the central and peripheral nervous systems. Human neurturin maps to chromosome 19p13.3.

Reagent
Supplied at ~0.5 mg/ml in phosphate buffered saline (PBS), containing 0.02 % sodium azide.

Storage/Stability
Antibody can be stored at 2-8 °C for three months and at −20 °C for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles.

Antibodies should not be exposed to prolonged high temperatures.

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Product Profile
Immunoblotting: a working dilution of 1:500 is recommended using a HeLa cell lysate. The detection limit for recombinant human NTN is at least 2.5 ng/lane. A band of ~14 kDa is detected.

Note: In order to obtain best results in different techniques and preparations we recommend determining optimal working concentrations by titration test.

References

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