

## Anti-Neurturin NRTN Antibody

Catalog Number: A05924

### About NRTN

Glial cell line-derived neurotrophic factor (GDNF) plays key roles in the control of vertebrate neuron survival and differentiation. A novel neurotrophic factor was recently cloned from human and mouse and designated neurturin. Physiological responses to neurturin (NTN) require the presence of receptor tyrosine kinase RET and a novel glycosylphosphatidylinositol linked receptor NTN $\alpha$ . The cDNAs encoding NTN $\alpha$  from human, rat, chicken, and mouse have been cloned recently and termed GDNFR $\beta$ , Ret ligand 2 (RETL2) or TGF- $\beta$ -related neurotrophic factor receptor 2 (TrnR2) and nominated as GFR $\alpha$ -2 recently. NTN binds to and forms a complex with GFR $\alpha$ -2 and the Ret PTK and activates the RET receptor tyrosine kinase pathway. Both NTN and GDNF can activate the MAP kinase and phosphatidylinositol 3-kinase pathways and play a critical role in the development of many neuronal populations. Neurturin and GDNF define a new family of neurotrophic factors.

### Overview

Product Name	Anti-Neurturin NRTN Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Neurturin NRTN Antibody (Catalog # A05924). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	Neurturin Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	Neurturin antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q99748

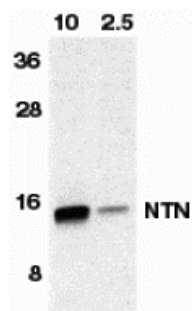
### Technical Details

Immunogen	Neurturin antibody was raised against a 16 amino acid peptide near the carboxy terminus of human Neurturin. The immunogen is located within the last 50 amino acids of Neurturin.
Predicted Reactive Species	Mouse
Isotype	IgG
Form	Liquid
Concentration	1 mg/ml
Purification	Neurturin Antibody is affinity chromatography purified via peptide column.

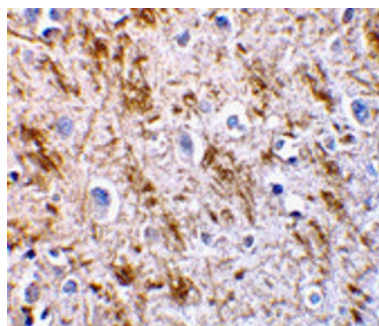
Suggested Dilutions

Neurturin antibody can be used for detection of neurturin by Western blot. An approximate 14 kDa band of the full length recombinant NTN was detected. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 5 ug/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in human and mouse samples and Immunofluorescence in human and mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

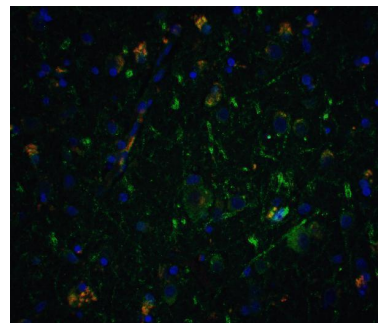
## Anti-Neurturin NRTN Antibody (A05924) Images



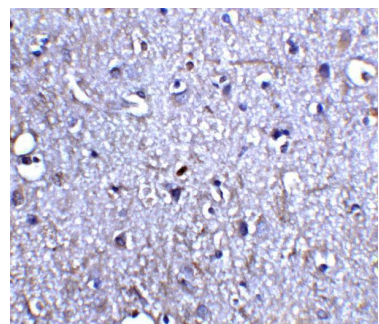
Western blot analysis of NTN in HeLa cell lysate containing 10 or 2.5 ng of full length recombinant NTN with neurturin antibody at 1:500.



Immunohistochemistry of neurturin in human brain tissue with neurturin antibody at 5 ug/mL.

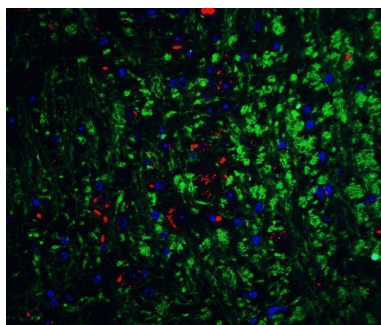
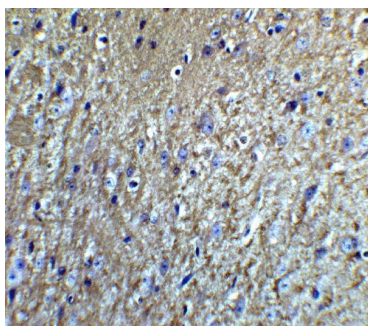


Immunofluorescence of Neurturin in human brain tissue with Neurturin antibody at 5 ug/ml. Green: Neurturin Antibody (A05924) Red: Phalloidin staining Blue: DAPI staining



Immunohistochemistry of Neurturin in human brain tissue with Neurturin antibody at 5 ug/ml.

Immunohistochemistry of Neurturin in mouse brain tissue with Neurturin Antibody at 5 ug/mL.



Immunofluorescence of Neurturin in mouse brain tissue with Neurturin Antibody at 20 ug/mL. Green: Neurturin Antibody (A05924) Red: Phalloidin staining Blue: DAPI staining

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Anti-Neurturin NRTN Antibody

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