

## Anti-Neuritin NRN1 Antibody

Catalog Number: A09989

### About NRN1

As the nervous system of a complex organism develops, it establishes functional networks through the growth and retraction of synaptic connections from growing axons and dendrites. This synaptic remodeling involves neuro-transmitter signaling, activation of neurotrophin receptors and alterations in gene expression. One such gene whose expression is increased by neural activity is neuritin, a GPI-anchored protein that is expressed in postmitotic differentiating neurons of the developing nervous system. Its expression is also induced by the neurotrophins BDNF and NT-3. Purified recombinant neuritin promotes neurite outgrowth and arborization in primary embryonic neuronal cultures, suggesting that neuritin may play a role as a downstream effector of activity-induced neurite outgrowth. More recent experiments have shown that neuritin is required for the androgen-induced axonal elongation in motor neurons and is upregulated following spinal cord injury, suggesting that neuritin may also play a role in survival and axonal regeneration.

### Overview

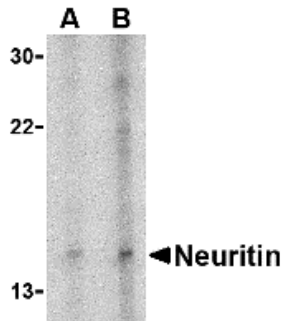
Product Name	Anti-Neuritin NRN1 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Neuritin NRN1 Antibody (Catalog # A09989). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	Neuritin Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	Neuritin 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	Q9NPD7

### Technical Details

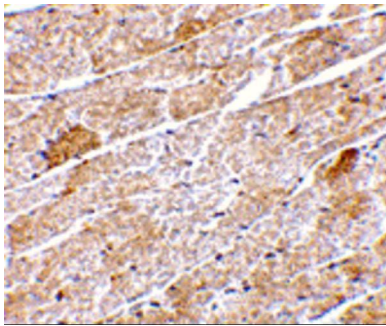
Immunogen	Neuritin antibody was raised against a 20 amino acid synthetic peptide from near the center of human neuritin. The immunogen is located within amino acids 70 - 120 of Neuritin.
Predicted Reactive Species	Bovine, Rat
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL

Purification	Neuritin Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	Neuritin antibody can be used for detection of Neuritin by Western blot at 5 and 10 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 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.

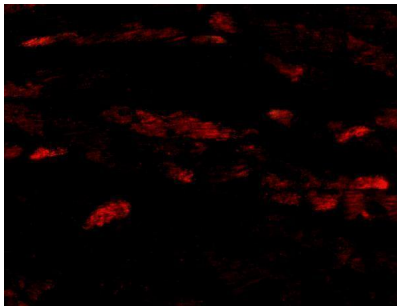
## Anti-Neuritin NRN1 Antibody (A09989) Images



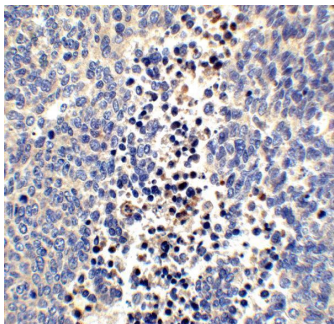
Western blot analysis of neuritin in Daudi cell lysate with neuritin antibody at (A) 5 and (B) 10 ug/mL.



Immunohistochemistry of Neuritin in mouse heart tissue with Neuritin antibody at 5 ug/mL.

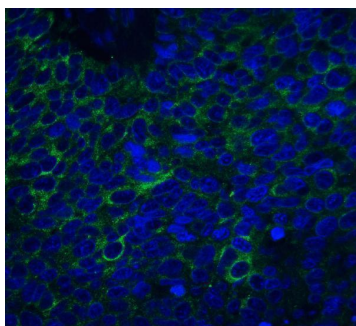


Immunofluorescence of Neuritin in Mouse Heart cells with Neuritin antibody at 20 ug/mL.



Immunohistochemistry of Neuritin in human brain tissue with Neuritin antibody at 2.5 ug/ml.

Immunofluorescence of Neuritin in human brain tissue with Neuritin antibody at 20 ug/mL. Green: Neuritin Antibody (A09989) Blue: DAPI staining



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Anti-Neuritin NRN1 Antibody

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