

Product datasheet for **TA306415**

Neuritin (NRN1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 5 and 10 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
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.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	neuritin 1
Database Link:	NP_057672 Entrez Gene 68404 Mouse Entrez Gene 51299 Human Q9NPD7



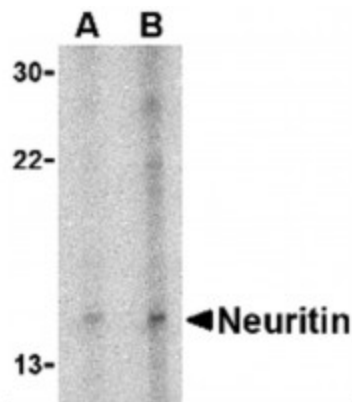
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Background:

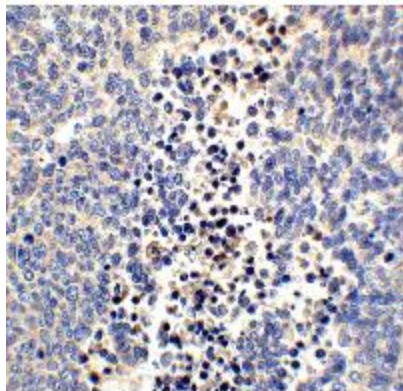
As the nervous system of a complex organism develops, it establishes functional networks through the growth and retraction of synaptic connections from growing axons and dendrites. This synaptic remodeling involves neuro-transmitter signaling, activation of neurotrophin receptors and alterations in gene 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.

Synonyms:

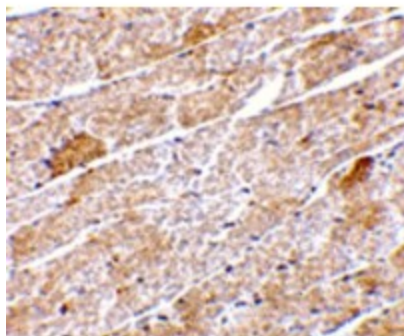
dj380B8.2; NRN

Product images:

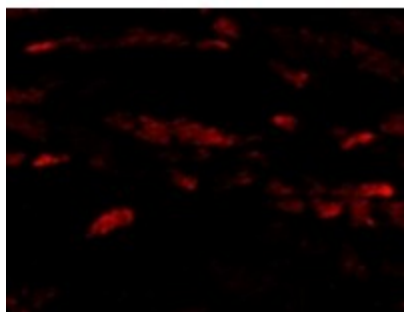
Western blot analysis of neuritin in Daudi cell lysate with neuritin antibody at (A) 5 and (B) 10ug/ml.



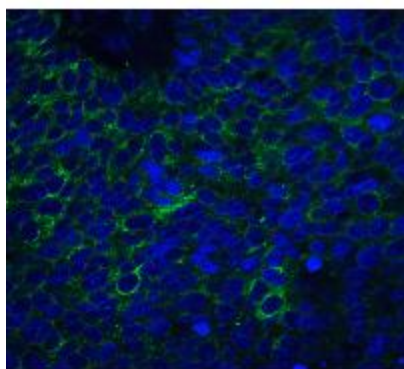
Immunohistochemistry of Neuritin in human brain tissue with Neuritin antibody at 2.5ug/ml.



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



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



Immunofluorescence of Neuritin in human brain tissue with Neuritin antibody at 20ug/ml.