

#### **Goat Anti-Neurturin Antibody**

Peptide-affinity purified goat antibody Catalog # AF1728b

#### **Specification**

#### **Goat Anti-Neurturin Antibody - Product Information**

Application WB, E
Primary Accession Q99748

Other Accession
Reactivity
Host
Clonality
Concentration

NP\_004549, 4902
Human, Mouse
Goat
Polyclonal
100ug/200ul

Isotype IgG
Calculated MW 22405

### Goat Anti-Neurturin Antibody - Additional Information

**Gene ID 4902** 

Other Names Neurturin, NRTN

Dilution WB~~1:1000 E~~N/A

#### **Format**

0.5~mg lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

### **Precautions**

Goat Anti-Neurturin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

#### **Goat Anti-Neurturin Antibody - Protein Information**

Name NRTN {ECO:0000303|PubMed:31535977, ECO:0000312|HGNC:HGNC:8007}

#### **Function**

Growth factor that supports the survival of sympathetic neurons in culture (PubMed:<a href="http://www.uniprot.org/citations/8945474" target="\_blank">8945474</a>). May regulate the development and maintenance of the CNS (PubMed:<a



href="http://www.uniprot.org/citations/8945474" target="\_blank">8945474</a>). Involved in the development of the neural crest (PubMed:<a href="http://www.uniprot.org/citations/15242795" target="\_blank">15242795</a>). Might control the size of non- neuronal cell population such as haemopoietic cells (PubMed:<a href="http://www.uniprot.org/citations/8945474" target="\_blank">8945474</a>). Acts by binding to its coreceptor, GFRA2, leading to autophosphorylation and activation of the RET receptor (PubMed:<a href="http://www.uniprot.org/citations/10829012" target="\_blank">10829012</a>, PubMed:<a href="http://www.uniprot.org/citations/29414779" target="\_blank">29414779</a>, PubMed:<a href="http://www.uniprot.org/citations/31535977" target="\_blank">31535977</a>). Heparan sulfate- binding is required for signaling (PubMed:<a href="http://www.uniprot.org/citations/29414779" target="\_blank">29414779</a>).

#### **Cellular Location**

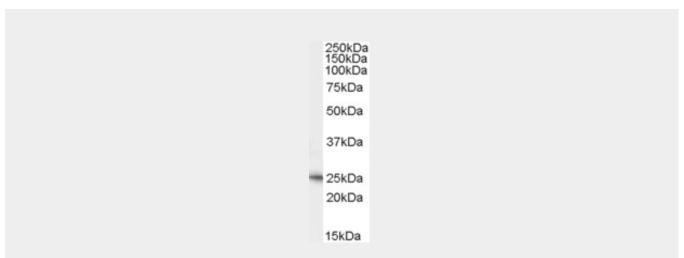
Secreted {ECO:0000250|UniProtKB:P97463}.

### **Goat Anti-Neurturin Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

### Goat Anti-Neurturin Antibody - Images

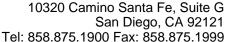


AF1728b (0.1  $\mu$ g/ml) staining of Human Heart lysate (35  $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

# Goat Anti-Neurturin Antibody - Background

Neurturin is a member of the TGF-beta subfamily, TRN. This gene signals through RET and a GPI-linked coreceptor, and promotes survival of neuronal populations. A neurturin mutation has been described in a family with Hirschsprung Disease.

# **Goat Anti-Neurturin Antibody - References**





Polymorphisms in the genes encoding the 4 RET ligands, GDNF, NTN, ARTN, PSPN, and susceptibility to Hirschsprung disease. Fernandez RM, et al. I Pediatr Surg, 2008 Nov. PMID 18970938.

Expression patterns of the glial cell line-derived neurotrophic factor, neurturin, their cognate receptors GFRalpha-1, GFRalpha-2, and a common signal transduction element c-Ret in the human skin hair follicles. Adly MA, et al. J Am Acad Dermatol, 2008 Feb. PMID 18222320.

Glial cell line-derived neurotrophic factor and neurturin inhibit neurite outgrowth and activate RhoA through GFR alpha 2b, an alternatively spliced isoform of GFR alpha 2. Young LF, et al. | Neurosci, 2007 May 23. PMID 17522305.

Glial cell-line derived neurotrophic factor and neurturin regulate the expressions of distinct miRNA precursors through the activation of GFRalpha2. Yoong LF, et al. | Neurochem, 2006 Aug. PMID 16895582.

Expression and function of glial cell line-derived neurotrophic factor family ligands and their receptors on human immune cells. Vargas-Leal V, et al. J Immunol, 2005 Aug 15. PMID 16081799.