

Datasheet for 600-401-DA4**Neurturin Antibody****Overview**

Description:	Anti-Neurturin (RABBIT) Antibody - 600-401-DA4
Item No.:	600-401-DA4
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	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 α . The cDNAs encoding NTN α from human, rat, chicken, and mouse have been cloned recently and termed GDNFRb, Ret ligand 2 (RET L_2) or TGF- β -related neurotrophic factor receptor 2 (TrnR2) and nominated as GFR α -2 recently. NTN binds to and forms a complex with GFR α -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.
Synonyms:	Neurturin Antibody, NTN, Neurturin
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	NRTN
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Neurturin antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid peptide near the C-terminus of human Neurturin.
Purity/Specificity:	Anti-Neurturin Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Neurturin from other sources has not been determined.
Relevant Links:	• UniProtKB - Q99748 • GeneID - 4902 • NCBI - NP_004549

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-Neurturin Antibody has been tested for use in ELISA, Western Blotting, Immunofluorescence, and Immunohistochemistry. An approximate 14 kDa band of the full length recombinant NTN was detected. Western Blot tested in human samples; Immunohistochemistry in human and mouse samples and Immunofluorescence in human and mouse samples. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
IF:	5 µg/mL
IHC:	5 µg/mL
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

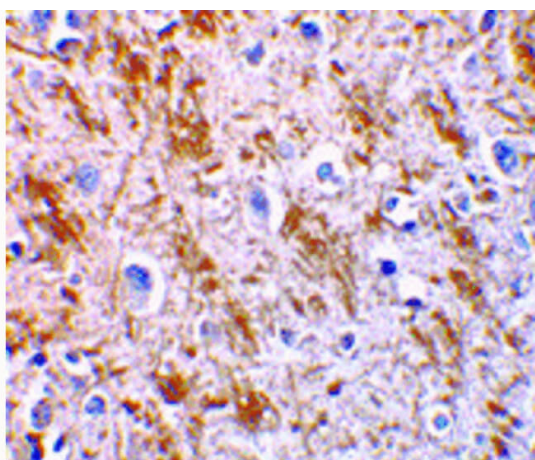
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

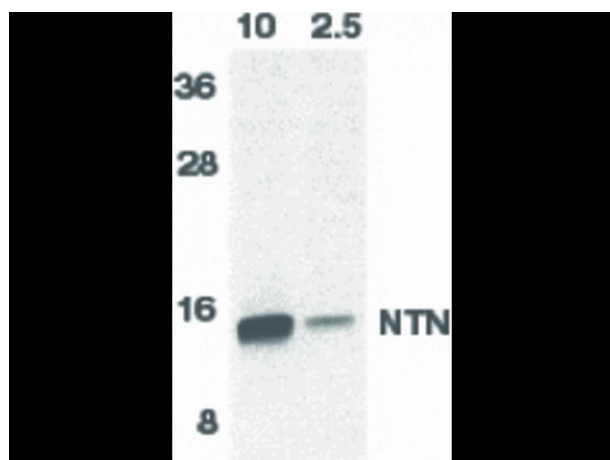
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of Rabbit anti-Neurturin antibody. Tissue: human brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: anti-Neurturin antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Neurturin is axonal. Staining: Neurturin as precipitated brown signal with hematoxylin blue nuclear counterstain.



Western Blot

Western Blot of Rabbit anti-Neurturin antibody. Lane 1: HeLa cell lysate containing 10 ng of full length recombinant neurturin. Lane 2: HeLa cell lysate containing 2.5 ng of full length recombinant neurturin. Load: 35 µg per lane. Primary antibody: anti-Neurturin antibody at 1:500 for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 22.4 kDa, 16 kDa for neurturin. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.