

Datasheet for 600-401-DA3**Neurotrypsin Antibody****Overview**

Description:	Anti-Neurotrypsin (RABBIT) Antibody - 600-401-DA3
Item No.:	600-401-DA3
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Neurotrypsin is a central nervous system-expressed serine protease whose truncation or absence causes nonsyndromic mental retardation. It is most prominently expressed in structures that are involved in the processing and storage of learned behavior and memory, such as the cerebral cortex, the hippocampus, and amygdala. Evidence suggests that neurotrypsin has multiple functions, including axonal outgrowth, maintaining neuronal plasticity, and arranging the perineuronal environment, partly in coordination with other proteases including tissue plasminogen activator. At least two isoforms of neurotrypsin are known to exist.
Synonyms:	Neurotrypsin Antibody, MRT1, BSSP3, BSSP-3, Neurotrypsin, Leydin
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PRSS12
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Neurotrypsin antibody was prepared from whole rabbit serum produced by repeated immunizations with a 23 amino acid synthetic peptide from near the N-terminus of human neurotrypsin.

Purity/Specificity: Anti-Neurotrypsin Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Neurotrypsin from other sources has not been determined.

Relevant Links:

- [UniProtKB - P56730](#)
- [GeneID - 8492](#)
- [NCBI - CAA04816](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-Neurotrypsin Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 97 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:5,000 - 1:20,000

IF: 20 µg/mL

IHC: 2.5 µg/mL

WB: .5-2 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0mg/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

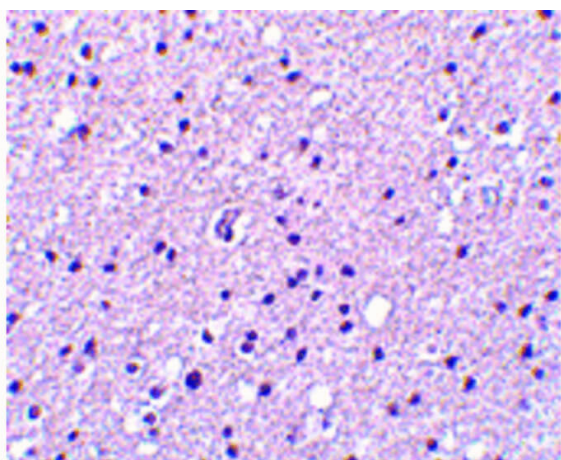
Stabilizer: None

Shipping & Handling

Shipping Condition: Dry Ice

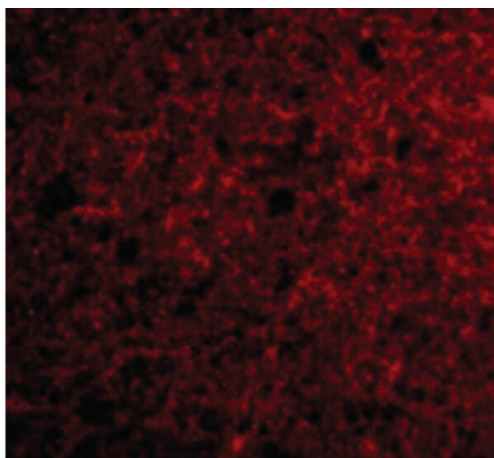
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



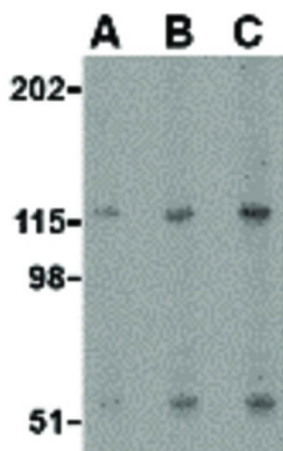
Immunohistochemistry

Immunohistochemistry of Neurotrypsin antibody. Tissue: Human brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Neurotrypsin antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Neurotrypsin is nuclear and occasionally cytoplasmic. Staining: Neurotrypsin as precipitated red signal with hematoxylin purple nuclear counterstain.



Immunofluorescence Microscopy

Immunofluorescence Microscopy of Neurotrypsin antibody. Tissue: Human brain cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Neurotrypsin antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: Neurotrypsin as red fluorescent signal.



Western Blot

Western Blot of Neurotrypsin antibody. Lane A: SK-N-SH cell lysate at 0.5 $\mu\text{g/mL}$. Lane B: SK-N-SH cell lysate at 1 $\mu\text{g/mL}$. Lane C: SK-N-SH cell lysate at 2 $\mu\text{g/mL}$. Load: 35 μg per lane. 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: 97 kDa, ~53 & ~116 kDa for Neurotrypsin. Other band(s): Neurotrypsin splice variants and isoforms.

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.