Datasheet for 612-401-E47

TrkB Antibody

Overview

Description:	Anti-TrkB (RABBIT) Antibody - 612-401-E47
Item No.:	612-401-E47
Size:	100 µL
Applications:	WB
Reactivity:	Rat
Host Species:	Rabbit

Product Details

Background:	TrkB Antibody Tropomyosin-receptor-kinase (TRK) receptors are members of the receptor tyrosine kinase family and include TrkA, TrkB and TrkC. Each of these receptor types has different binding affinities to the neurotrophins nerve growth factor (NGF), brain-derived neurotrophic factor (BDNF) and neurotrophin 3 (NT-3). TrkB has the highest affinity to binding BDNF which plays critical roles in the function and survival of neurons in the CNS. Additionally, alterations in expression of TrkB have been associated with Alzheimer's disease. Anti-TrkB Antibody is ideal for investigators involved in Cell Signaling, Neuroscience, Signal Transduction research.
Synonyms:	BDNF/NT-3 growth factors receptor, Neurotrophic tyrosine kinase receptor type 2, TrkB tyrosine kinase
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Ntrk2
Reactivity:	Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-TrkB Antibody was produced in rabbit by repeated immunizations with synthetic peptide corresponding to amino acid residues from the C-terminal region of TrkB.

Purity/Specificity:	Anti-TrkB antibody is directed against Trk B protein. TrkB antibody was affinity purified from monospecific antiserum by immunoaffinity purification. This antibody is directed against rat TrkB proteins. Cross reactivity from other sources has not been determined.
Relevant Links:	• UniProtKB - Q63604 • GeneID - 25054 • NCBI - NP_036863.1

Application Details

Tested Applications:	WB
Application Note:	Anti-Trk B antibody is tested for use in Western Blotting. Expect a band of approximately 93 kDa in size corresponding to TrkB protein in the appropriate cell lysate or extract. Researchers should determine optimal titers for applications that are not stated below.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1:1000

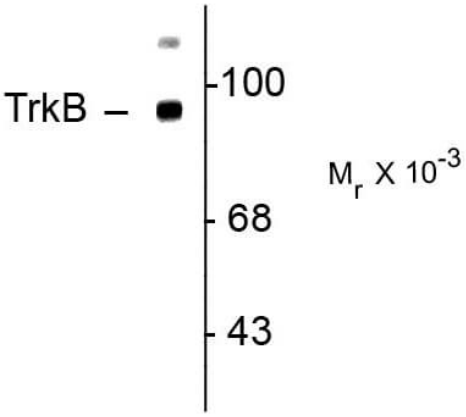
Formulation

Physical State:	Liquid
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Rabbit anti-TrkB antibody. Lane 1: Rat Synaptic Membrane. Lane 2: None. Load: 10 µg per lane. Primary antibody: TrkB antibody at 1:1,000 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 93 kDa for TrkB. Other band(s): TrkB 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.