

## Anti-TrkCT1 NTRK3 Antibody

Catalog Number: A02502

### About NTRK3

This antibody is suitable for Cancer, Immunology and Nuclear Signaling research. TrkCT1, also named neurotrophic tyrosine kinase receptor type 3 (Ntrk3) non-catalytic isoform 2, is a non-catalytic isoform of TrkC, the high affinity receptor for Neurotrophin-3 (NT-3). This isoform lacks the kinase domain that is responsible for signaling by the full-length isoform. TrkCT1 is the product of an alternative splicing of Ntrk3 that leaves the extracellular and transmembrane domains intact but includes a shorter intracellular domain encoded by exons 13b and 14b. Recent studies indicate that the short cytoplasmic tail binds the scaffold protein Tamalin in a ligand-dependent manner and further activates the Arf6-Rac1 signaling pathway. Isoform 3 transcripts are readily detected early during embryogenesis and are expressed predominantly in adult brain and gonads.

### Overview

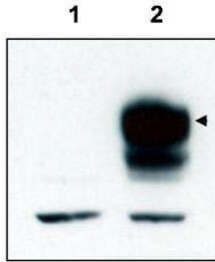
Product Name	Anti-TrkCT1 NTRK3 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-TrkCT1 NTRK3 Antibody (Catalog # A02502). Tested in ELISA, IP, WB applications. This antibody reacts with Human, Mouse.
Application	ELISA, IP, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	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 date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q6VNS1

### Technical Details

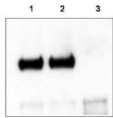
Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids near the carboxyl terminus of mouse TrkCT1 protein.
Predicted Reactive Species	Bovine, Pufferfish, Zebrafish
Isotype	IgG
Form	Liquid (sterile filtered)

Concentration	1.0 mg/mL by UV absorbance at 280 nm
Purification	This affinity purified antibody is directed against mouse TrkCT1 protein. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest cross-reactivity with TrkCT1 protein from human, mouse and rat based on 100% homology with the immunizing sequence. Reactivity against homologues from other sources is not known.
Suggested Dilutions	ELISA: 1:5,000 - 1:20,000 IP: 1 ug WB: 1:1,000 - 1:10,000 This affinity purified antibody has been tested for use in ELISA, IP, and western blotting. Specific conditions for reactivity should be optimized by the end user. While the predicted molecular weight for TrkCT1 is approximately 68 kDa, the protein has been reported to migrate at about 95 kDa on western blots. The molecular weight noted for TrkCT1 depends somewhat upon the cell lysate or extract used for western blotting, and this variation may be due to post-translational modifications of the protein.

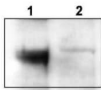
## Anti-TrkCT1 NTRK3 Antibody (A02502) Images



Western blot using Boster's affinity purified anti-TrkCT1 to detect over-expressed TrkCT1 in HEK293 cells (Lane 2, arrowhead). Lane 1 is a non-transfected control. Cell extracts were resolved by electrophoresis and transferred to nitrocellulose. The membrane was probed with the primary antibody at a 1:3,000 dilution. Personal Communication, V. Coppola, CCR-NCI, Frederick, MD.



Mouse cortex lysate was immunoprecipitated with anti-TrkCT1 antibody and further blotted with affinity purified anti-TrkCT1. Lane 1 is wild-type cortex lysate, Lane 2 is Tamalin knock-out cortex lysate, and Lane 3 is TrkCT1 knock-out cortex lysate. The membrane was probed with the primary antibody at a 1:6,000 dilution. Personal Communication, V. Coppola, CCR-NCI, Frederick, MD.



Western blot using Boster's affinity purified anti-TrkCT1 to detect endogenous TrkCT1 in mouse cortex lysate (Lane 1). Lane 2 is TrkCT1 knock-out cortex lysate. Cell extracts were resolved by electrophoresis and transferred to nitrocellulose. The membrane was probed with the primary antibody at a 1:6,000 dilution. Personal Communication, V. Coppola, CCRNCI, Frederick, MD.

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Anti-TrkCT1 NTRK3 Antibody

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