

## Anti-TrkB (Ab-705) NTRK2 Antibody

Catalog Number: A01388-1

### About NTRK2

Receptor for brain-derived neurotrophic factor (BDNF), neurotrophin-3 and neurotrophin-4/5 but not nerve growth factor (NGF). Involved in the development and/or maintenance of the nervous system. This is a tyrosine-protein kinase receptor. Known substrates for the TRK receptors are SHC1, PI-3 kinase, and PLC-gamma-1.

Woronowicz A, et al. *Glycobiology*. 2007 Jan;17(1):10-24. Mojsilovic-Petrovic J, et al. *J Neurosci*. 2006 Sep 6;26(36):9250-63. Lewis MA, et al. *Mol Pharmacol*. 2006 Apr;69(4):1396-404. Cai D, et al. *Physiol Genomics*. 2006 Feb 14;24(3):191-7.

### Overview

Product Name	Anti-TrkB (Ab-705) NTRK2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-TrkB (Ab-705) NTRK2 Antibody (Catalog # A01388-1). Tested in WB, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, WB
Clonality	Polyclonal
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q16620

### Technical Details

Immunogen	Peptide sequence around aa.703~707 (T-D-Y -Y-R) derived from Human TrkB.
Predicted Reactive Species	Bovine, Canine, Guinea Pig, Zebrafish
Isotype	IgG
Form	Liquid
Concentration	1 mg/ml
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.

**Suggested Dilutions**

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Predicted MW: 145kd

Western blotting: 1:500~1:1000

Immunofluorescence: 1:100~1:200

## Anti-TrkB (Ab-705) NTRK2 Antibody (A01388-1) Images

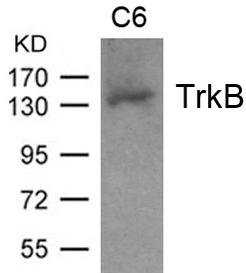
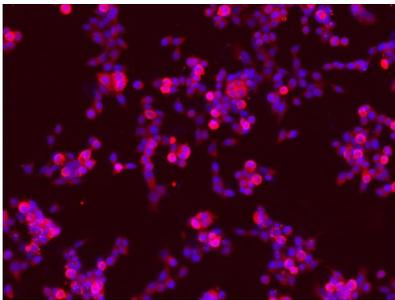


Figure 1. Western blot analysis of NTRK2 using anti-NTRK2 antibody (A01388-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NTRK2 antigen affinity purified polyclonal antibody (Catalog # A01388-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-Rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # SA1022) with Tanon 5200 system. A specific band was detected for NTRK2.



Immunofluorescence staining of methanol-fixed NCI-h446 cells showing cytoplasmic staining using TrkB (Ab-705) Antibody #A01388-1.

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