

## Anti-TrkB/NTRK2 Antibody

Catalog Number: A01388-4

### About NTRK2

TrkB is also known as NTRK2. This gene encodes a member of the neurotrophic tyrosine receptor kinase (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. Signalling through this kinase leads to cell differentiation. Mutations in this gene have been associated with obesity and mood disorders. Alternative splicing results in multiple transcript variants. Tropomyosin receptor kinase B is the high affinity catalytic receptor for several "neurotrophins", which are small protein growth factors that induce the survival and differentiation of distinct cell populations. The neurotrophins that activate TrkB are: BDNF (Brain Derived Neurotrophic Factor), neurotrophin-4 (NT-4), and neurotrophin-3 (NT-3). As such, TrkB mediates the multiple effects of these neurotrophic factors, which includes neuronal differentiation and survival.

### Overview

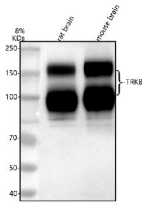
|                      |                                                                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-TrkB/NTRK2 Antibody                                                                                                                                 |
| Reactive Species     | Human, Mouse, Rat                                                                                                                                        |
| Description          | Boster Bio Anti-TrkB/NTRK2 Antibody catalog # A01388-4. Tested in WB, IHC, ICC, IF, IP, ELISA applications. This antibody reacts with Human, Mouse, Rat. |
| Application          | ELISA, IP, IF, IHC, ICC, WB                                                                                                                              |
| Clonality            | Polyclonal                                                                                                                                               |
| Formulation          | 500 ug/ml antibody with PBS+0.02% NaN <sub>3</sub> , 1 mg BSA and 50% glycerol.                                                                          |
| Storage Instructions | 12 months from date of receipt at -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.                        |
| Host                 | Rabbit                                                                                                                                                   |
| Uniprot ID           | Q16620                                                                                                                                                   |

### Technical Details

|                     |                                                                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen           | E.coli-derived human TrkB/NTRK2 recombinant protein (Position: I43-A435).                                                                   |
| Form                | Liquid                                                                                                                                      |
| Concentration       | 500 ug/ml                                                                                                                                   |
| Purification        | Immunogen affinity purified.                                                                                                                |
| Suggested Dilutions | Western blot, 1:500-2000<br>Immunohistochemistry, 1:50-400<br>Immunocytochemistry/Immunofluorescence, 1:50-400<br>Immunoprecipitation, 1:50 |

|  |                   |
|--|-------------------|
|  | ELISA, 1:100-1000 |
|--|-------------------|

## Anti-TrkB/NTRK2 Antibody (A01388-4) Images



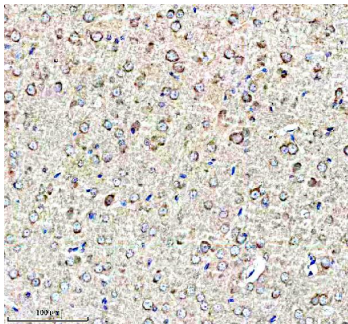
Western blot analysis of TrkB/NTRK2 using anti-TrkB/NTRK2 antibody (A01388-4).

Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat brain tissue lysates,

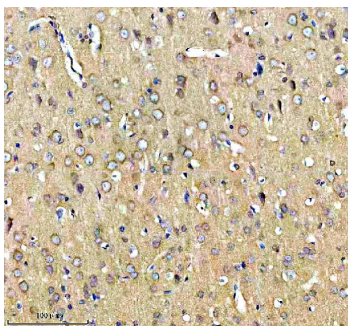
Lane 2: mouse brain tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-TrkB/NTRK2 antigen affinity purified polyclonal antibody (A01388-4) at 1:1000 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 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for TrkB/NTRK2 at approximately 92 kDa. The expected band size for TrkB/NTRK2 is at 92 kDa.



IHC analysis of TrkB/NTRK2 using anti-TrkB/NTRK2 antibody (A01388-4).

TrkB/NTRK2 was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:100 rabbit anti-TrkB/NTRK2 Antibody (A01388-4) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



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