

## Product datasheet

# Anti-TrkB (phospho Y706) antibody [EPR19399] ab197072

Recombinant RabMAb

★☆☆☆☆ [1 Abreviews](#) [3 References](#) [3 Images](#)

### Overview

|                            |  |
|----------------------------|--|
| <b>Product name</b>        | Anti-TrkB (phospho Y706) antibody [EPR19399]   |
| <b>Description</b>         | Rabbit monoclonal [EPR19399] to TrkB (phospho Y706)  |
| <b>Host species</b>        | Rabbit   |
| <b>Tested applications</b> | <b>Suitable for:</b> Dot blot, WB  |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human  |
| <b>Immunogen</b>           | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.  |
| <b>Positive control</b>    | WB: HEK-293 whole cell lysate transfected with TrkB (wild type) with Myc-tag; HEK-293 whole cell lysate transfected with TrkB (wild type) with Myc-tag starved for 4 hours, then treated with 50 ng/ml BDNF for 10 minutes   |
| <b>General notes</b>       | <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> |

### Properties

|                             |   |
|-----------------------------|---|
| <b>Form</b>                 | Liquid  |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| <b>Storage buffer</b>       | pH: 7.2<br>Preservative: 0.01% Sodium azide<br>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA               |
| <b>Purity</b>               | Protein A purified  |
| <b>Clonality</b>            | Monoclonal  |

**Clone number**                   EPR19399  
**Isotype**                         IgG

## Applications

**The Abpromise guarantee**       Our **Abpromise guarantee** covers the use of ab197072 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes   |
|-------------|-----------|---|
| Dot blot    |           | 1/1000.   |
| WB          | ★☆☆☆☆ (1) | 1/1000. Detects a band of approximately 140 kDa (predicted molecular weight: 92 kDa). |

## Target

**Function**                            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.

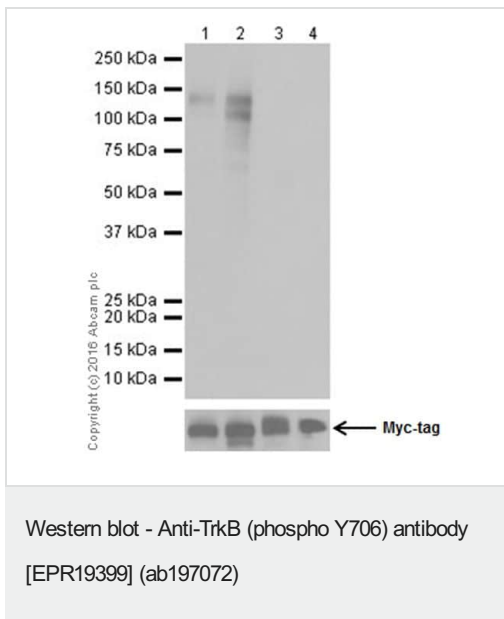
**Tissue specificity**                Isoform TrkB is widely expressed, mainly in the nervous tissue. In the CNS, expression is observed in the cerebral cortex, hippocampus, thalamus, choroid plexus, granular layer of the cerebellum, brain stem, and spinal cord. In the peripheral nervous system, it is expressed in many cranial ganglia, the ophthalmic nerve, the vestibular system, multiple facial structures, the submaxillary glands, and dorsal root ganglia. Isoform TrkB-T1 is expressed in multiple tissues, mainly in brain, pancreas, kidney and heart. Isoform TrkB-T-Shc is predominantly expressed in brain.

**Sequence similarities**            Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily. Contains 2 Ig-like C2-type (immunoglobulin-like) domains. Contains 2 LRR (leucine-rich) repeats. Contains 1 LRRCT domain. Contains 1 LRRNT domain. Contains 1 protein kinase domain.

**Post-translational modifications**   Ligand-mediated auto-phosphorylation.

**Cellular localization**             Membrane.

## Images



**All lanes :** Anti-TrkB (phospho Y706) antibody [EPR19399] (ab197072) at 1/1000 dilution

**Lane 1 :** HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate transfected with TrkB (wild type) with Myc-tag

**Lane 2 :** HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate transfected with TrkB (wild type) with Myc-tag starved for 4 hours, then treated with 50 ng/ml BDNF for 10 minutes

**Lane 3 :** HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate transfected with TrkB (phospho Y706A mutant) with Myc-tag

**Lane 4 :** HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate transfected with TrkB (phospho Y706A mutant) with Myc-tag starved for 4 hours, then treated with 50 ng/ml BDNF for 10 minutes

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

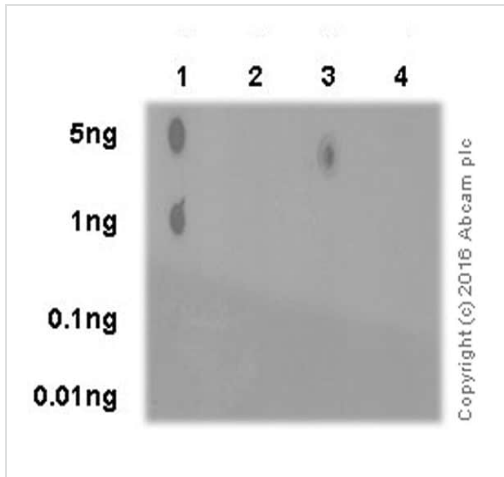
**Predicted band size:** 92 kDa

**Observed band size:** 140 kDa

**Exposure time:** 1 second

Blocking/Dilution buffer: 5% NFDm/TBST.

The observed MW is higher than the predicted one due to the glycosylation. The expression pattern is consistent with the published papers. (PMID: 23115189 and 20064930).



Dot Blot - Anti-TrkB (phospho Y706) antibody [EPR19399] (ab197072)

Dot blot analysis of TrkB (phospho Y706) labeled with ab197072 at 1/1000 dilution.

Lane 1: TrkB (phospho Y706) phospho peptide;

Lane 2: TrkB Non-phospho peptide;

Lane 3: TrkA (phospho Y680) phospho peptide;

Lane 4: TrkA Non-phospho peptide.

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) at 1/100000 dilution was used as secondary antibody.

Blocking and diluting buffer: 5% NFDm/TBST.

Exposure time: 3 minutes.

Note: ab197072 has weak cross reactivity with TrkA (phospho Y680) according to the dot blot data.

Why choose a recombinant antibody?

|   |   |
|---|---|
|  <p><b>Research with confidence</b><br/>Consistent and reproducible results</p> |  <p><b>Long-term and scalable supply</b><br/>Recombinant technology</p> |
|  <p><b>Success from the first experiment</b><br/>Confirmed specificity</p>     |  <p><b>Ethical standards compliant</b><br/>Animal-free production</p>  |

Anti-TrkB (phospho Y706) antibody [EPR19399] (ab197072)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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