


## Product datasheet

# Anti-TrkA (phospho Y496) + TrkB (phospho Y516) + TrkC (phospho Y516) antibody [EPR19140] ab197071

Recombinant RabMAb

[2 References](#) [5 Images](#)

### Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-TrkA (phospho Y496) + TrkB (phospho Y516) + TrkC (phospho Y516) antibody [EPR19140]  |
| <b>Description</b>         | Rabbit monoclonal [EPR19140] to TrkA (phospho Y496) + TrkB (phospho Y516) + TrkC (phospho Y516)   |
| <b>Host species</b>        | Rabbit  |
| <b>Tested applications</b> | <b>Suitable for:</b> Dot blot, WB   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Rat, Human<br><b>Predicted to work with:</b> Mouse   |
| <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; PC-12 treated with 100 ng/mL NGF ( <a href="#">ab9796</a> ) for 5 minutes, whole cell lysate.   |
| <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         |
| <b>Clone number</b> | EPR19140           |
| <b>Isotype</b>      | IgG                |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab197071 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

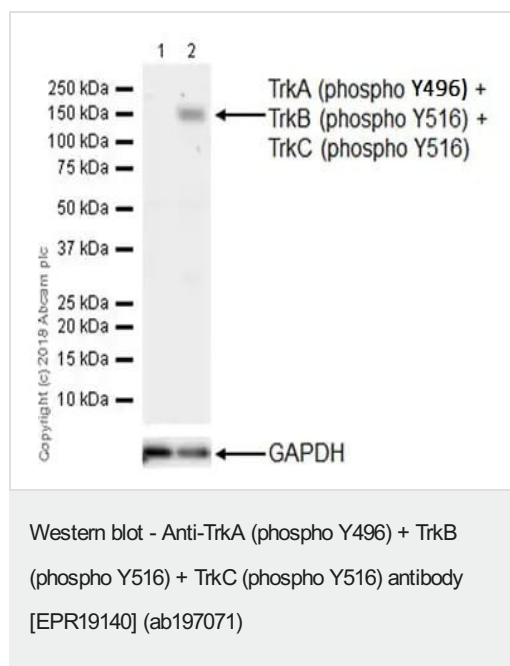
| Application     | Abreviews | Notes   |
|-----------------|-----------|---|
| <b>Dot blot</b> |           | 1/1000.   |
| <b>WB</b>       |           | 1/2000. Detects a band of approximately 140 kDa (predicted molecular weight: 92 kDa). |

## Target

### Cellular localization

TrkA: Cell membrane. Early endosome membrane. Late endosome membrane. Internalized to endosomes upon binding of NGF or NTF3 and further transported to the cell body via a retrograde axonal transport. Localized at cell membrane and early endosomes before nerve growth factor (NGF) stimulation. Recruited to late endosomes after NGF stimulation. Colocalized with RAPGEF2 at late endosomes (By similarity). TrkB: Membrane. TrkC: Membrane.

## Images



**All lanes :** Anti-TrkA (phospho Y496) + TrkB (phospho Y516) + TrkC (phospho Y516) antibody [EPR19140] (ab197071) at 1/1000 dilution

**Lane 1 :** Untreated PC-12 (rat adrenal gland pheochromocytoma) whole cell lysate

**Lane 2 :** PC-12 treated with 100 ng/mL NGF (**ab9796**) for 5 minutes, whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

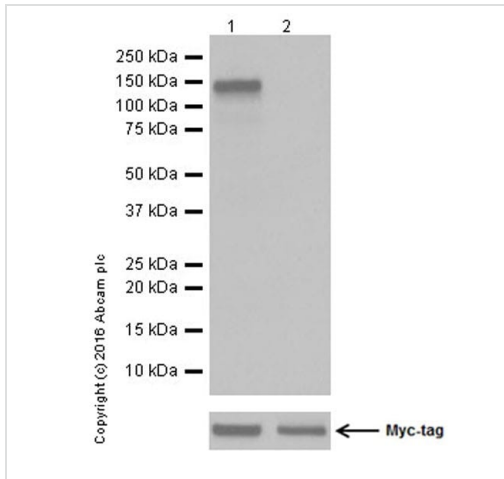
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

**Predicted band size:** 92 kDa

**Observed band size:** 140 kDa

**Exposure time:** 3 minutes

Blocking and dilution buffer: 5% NFDM/TBST.



Western blot - Anti-TrkA (phospho Y496) + TrkB (phospho Y516) + TrkC (phospho Y516) antibody [EPR19140] (ab197071)

**All lanes :** Anti-TrkA (phospho Y496) + TrkB (phospho Y516) + TrkC (phospho Y516) antibody [EPR19140] (ab197071) at 1/10000 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 (phospho Y516A mutant) with Myc-tag

Lysates/proteins at 20 µg per lane.

### Secondary

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

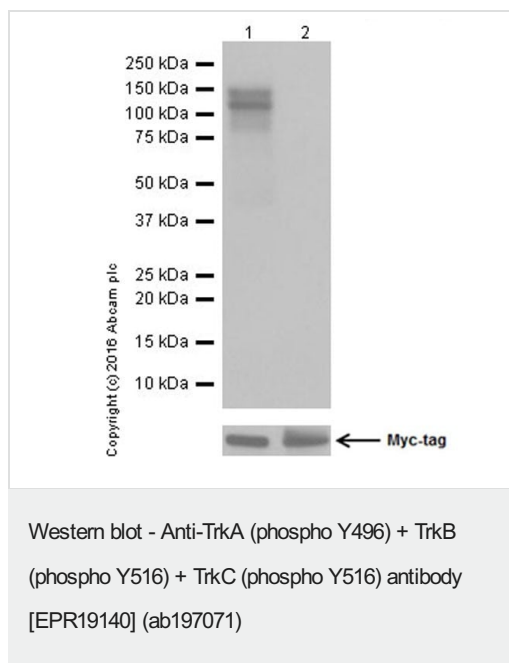
**Predicted band size:** 92 kDa

**Observed band size:** 140 kDa

**Exposure time:** 10 seconds

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).



**All lanes :** Anti-TrkA (phospho Y496) + TrkB (phospho Y516) + TrkC (phospho Y516) antibody [EPR19140] (ab197071) at 1/2000 dilution

**Lane 1 :** 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 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

Lysates/proteins at 20 µg per lane.

### Secondary

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

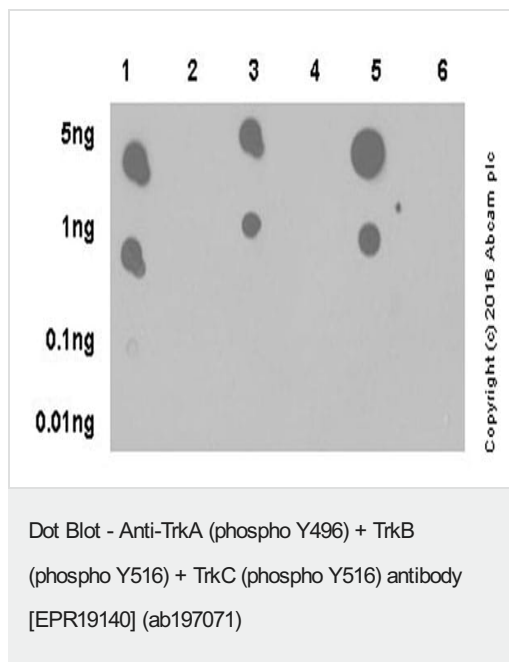
**Predicted band size:** 92 kDa

**Observed band size:** 140 kDa

**Exposure time:** 3 seconds

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 analysis of TrkA (phospho Y496), TrkB (phospho Y516), and TrkC (phospho Y516) peptides labeled with ab197071 at 1/1000 dilution.

Lane 1: TrkB (phospho Y516) phospho peptide;

Lane 2: TrkB Non-phospho peptide;

Lane 3: TrkA (phospho Y496) phospho peptide;

Lane 4: TrkA Non-phospho peptide;

Lane 5: TrkC (phospho Y516) phospho peptide;

Lane 6: TrkC 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: ab197071 reacts with TrkB (phospho Y516)/ TrkA (phospho Y496)/ TrkC (phospho Y516) according to the dot blot data.

Why choose a recombinant antibody?

**Research with confidence**  
Consistent and reproducible results

**Long-term and scalable supply**  
Recombinant technology

**Success from the first experiment**  
Confirmed specificity

**Ethical standards compliant**  
Animal-free production

Anti-TrkA (phospho Y496) + TrkB (phospho Y516) + TrkC (phospho Y516) antibody [EPR19140] (ab197071)

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

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