

## Product datasheet

# Anti-TRAF3 antibody [EPR22992-93] ab239357

**KO VALIDATED** Recombinant RabMAB

[3 References](#) [3 Images](#)

### Overview

<b>Product name</b>	Anti-TRAF3 antibody [EPR22992-93]
<b>Description</b>	Rabbit monoclonal [EPR22992-93] to TRAF3
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB <b>Unsuitable for:</b> Flow Cyt, ICC/IF, IHC-P or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Wild type HAP1 whole cell lysate. Daudi, HEK-293T, C6, RAW264.7, PC-12 and NIH/3T3 whole cell lysate. Mouse brain, rat spleen and rat brain lysates.
<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 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR22992-93

Isotype

IgG

## Applications

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### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab239357 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
WB		1/1000. Predicted molecular weight: 64 kDa.

### Application notes

Is unsuitable for Flow Cyt, ICC/IF, IHC-P or IP.

## Target

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### Function

Regulates pathways leading to the activation of NF-kappa-B and MAP kinases, and plays a central role in the regulation of B cell survival. Part of signaling pathways leading to the production of cytokines and interferon. Required for normal antibody isotype switching from IgM to IgG. Plays a role T-cell dependent immune responses. Plays a role in the regulation of antiviral responses. Is an essential constituent of several E3 ubiquitin-protein ligase complexes. May have E3 ubiquitin-protein ligase activity and promote 'Lys-63'-linked ubiquitination of target proteins. Inhibits activation of NF-kappa-B in response to LTBR stimulation. Inhibits TRAF2-mediated activation of NF-kappa-B. Down-regulates proteolytic processing of NFKB2, and thereby inhibits non-canonical activation of NF-kappa-B. Promotes ubiquitination and proteasomal degradation of MAP3K14.

### Sequence similarities

Belongs to the TNF receptor-associated factor family. A subfamily.  
Contains 1 MATH domain.  
Contains 1 RING-type zinc finger.  
Contains 2 TRAF-type zinc fingers.

### Domain

The MATH/TRAF domain binds to receptor cytoplasmic domains.  
The Ring-type zinc finger domain is required for its function in down-regulation of NFKB2 proteolytic processing.

### Post-translational modifications

Undergoes 'Lys-48'-linked polyubiquitination, leading to its proteasomal degradation in response to signaling by TNFSF13B, TLR4 or through CD40. Undergoes 'Lys-63'-linked ubiquitination during early stages of virus infection, and 'Lys-48'-linked ubiquitination during later stages. Undergoes both 'Lys-48'-linked and 'Lys-63'-linked ubiquitination in response to TLR3 and TLR4 signaling (By similarity). Deubiquitinated by OTUB1, OTUB2 and OTUD5.

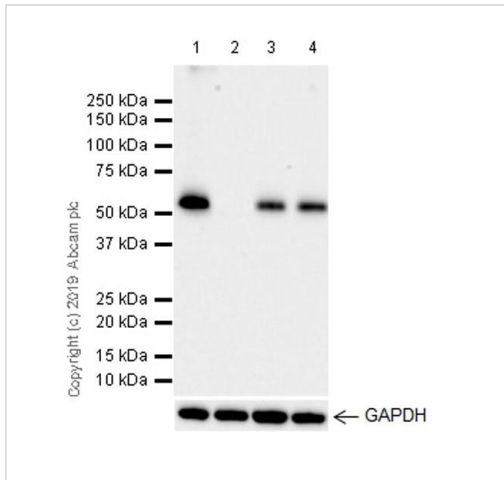
### Cellular localization

Cytoplasm. Endosome. Mitochondrion. Undergoes endocytosis together with TLR4 upon LPS signaling (By similarity). Associated with mitochondria in response to virus.

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## Images

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Western blot - Anti-TRAF3 antibody [EPR22992-93] (ab239357)

**All lanes** : Anti-TRAF3 antibody [EPR22992-93] (ab239357) at 1/1000 dilution

**Lane 1** : Wild type HAP1 whole cell lysate

**Lane 2** : TRAF3 knockout HAP1 whole cell lysate

**Lane 3** : Daudi (human Burkitt's lymphoma lymphoblast), whole cell lysate

**Lane 4** : HEK-293T (human embryonic kidney epithelial cell), whole cell lysate

Lysates/proteins at 40 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

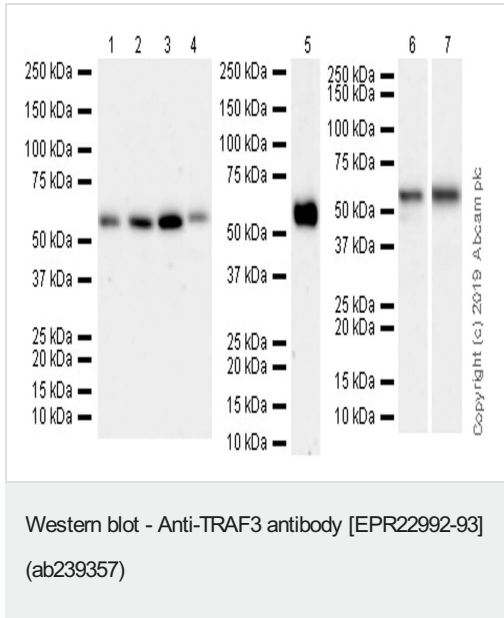
**Predicted band size:** 64 kDa

**Observed band size:** 64 kDa

Blocking and diluting buffer and concentration: 5% NFDN/TBST.

ab239357 was shown to specifically react with TRAF3 in wild-type HAP1 cells as signal was lost in TRAF3 knockout cells. Wild-type and TRAF3 knockout samples were subjected to SDS-PAGE.

ab239357 and [ab181602](#) (Rabbit anti-GAPDH loading control) were incubated 1 hour at room temperature at 1/1000 dilution and 1/200,000 dilution respectively. Blots were developed with Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) secondary antibody at 1/20,000 dilution for 1 hour at room temperature before imaging. Exposure time: 37 seconds.



**All lanes** : Anti-TRAF3 antibody [EPR22992-93] (ab239357) at 1/1000 dilution

**Lane 1** : C6 (rat glial tumor glial cell), whole cell lysate

**Lane 2** : RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage), whole cell lysate

**Lane 3** : PC-12 (rat adrenal gland pheochromocytoma), whole cell lysate

**Lane 4** : NIH/3T3 (mouse embryonic fibroblast), whole cell lysate

**Lane 5** : Mouse brain tissue lysate

**Lane 6** : Rat spleen tissue lysate

**Lane 7** : Rat brain tissue lysate

Lysates/proteins at 10 µg per lane.

### Secondary

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

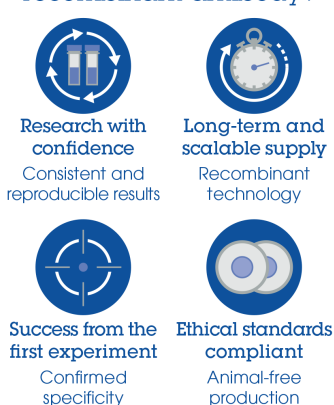
**Predicted band size:** 64 kDa

**Observed band size:** 64 kDa

Blocking and diluting buffer and concentration: 5% NFDN/TBST.

Exposure time: Lanes 1-4: 128 seconds; Lane 5: 3 minutes; Lane 6: 125 seconds; Lane 7: 8 seconds.

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-TRAF3 antibody [EPR22992-93] (ab239357)

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

### Our Abpromise to you: Quality guaranteed and expert technical support

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors