

## Product datasheet

# Anti-TRAF6 antibody [EP592Y] ab40675

敲除验证
重组
RabMAb

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### 概述

产品名称	Anti-TRAF6抗体[EP592Y]
描述	兔单克隆抗体[EP592Y] to TRAF6
宿主	Rabbit
经测试应用	适用于: IHC-P, ICC/IF, WB
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide within Human TRAF6 aa 500 to the C-terminus (C terminal). The exact sequence is proprietary.

### 阳性对照

[购买相配的WB阳性对照](#)  
[Recombinant Human TRAF6 protein](#) >

WB: Jurkat, HEK293 and HeLa cell lysates. IHC-P: Human cerebral cortex and mouse kidney tissues. ICC/IF: HeLa cells. This antibody is unsuitable for detecting TRAF6 in tissue lysates.

### 常规说明

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#)

**We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.**

This product is a recombinant rabbit monoclonal antibody.

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide

	Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	EP592Y
同种型	IgG

## 应用

Our [Abpromise guarantee](#) covers the use of **ab40675** in the following tested applications.

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

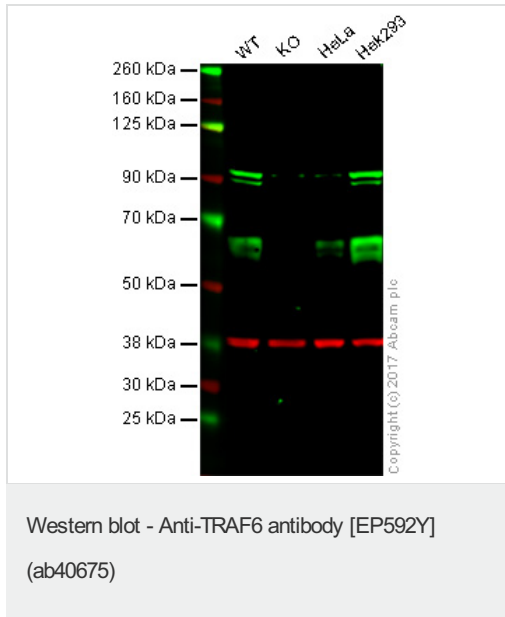
应用	Ab评论	说明
IHC-P		1/50.
ICC/IF		1/50. <b>For unpurified use at 1/250 - 1/500.</b>
WB		1/5000. Detects a band of approximately 58 kDa (predicted molecular weight: 63 kDa). <b>For unpurified use at 1/2000 - 1/10000.</b>

## 靶标

功能	E3 ubiquitin ligase that, together with UBE2N and UBE2V1, mediates the synthesis of 'Lys-63'-linked-polyubiquitin chains conjugated to proteins, such as IKBKG, AKT1 and AKT2. Also mediates ubiquitination of free/unanchored polyubiquitin chain that leads to MAP3K7 activation. Leads to the activation of NF-kappa-B and JUN. May be essential for the formation of functional osteoclasts. Seems to also play a role in dendritic cells (DCs) maturation and/or activation. Represses c-Myb-mediated transactivation, in B lymphocytes. Adapter protein that seems to play a role in signal transduction initiated via TNF receptor, IL-1 receptor and IL-17 receptor.
组织特异性	Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.
通路	Protein modification; protein ubiquitination.
序列相似性	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.
结构域	The coiled coil domain mediates homo- and hetero-oligomerization. The MATH/TRAF domain binds to receptor cytoplasmic domains.
翻译后修饰	Sumoylated on Lys-124, Lys-142 and Lys-453 by SUMO1. Polyubiquitinated on Lys-124; after cell stimulation with IL-1-beta or TGF-beta. This ligand-induced cell stimulation leads to dimerization/oligomerization of TRAF6 molecules, followed by auto-ubiquitination which involves UBE2N and UBE2V1 and leads to TRAF6 activation. This 'Lys-63' site-specific poly-ubiquitination appears to be associated with the activation of signaling molecules. Endogenous autoubiquitination occurs only for the cytoplasmic form.
细胞定位	Cytoplasm. Cytoplasm > cell cortex. Nucleus. Found in the nuclei of some aggressive B-cell lymphoma cell lines as well as in the nuclei of both resting and activated T-and B-lymphocytes.

Found in punctate nuclear body protein complexes. Ubiquitination may occur in the cytoplasm and sumoylation in the nucleus.

## 图片



Lane 1: Wild type HAP1 whole cell lysate (20  $\mu$ g)

Lane 2: TRAF6 knockout HAP1 whole cell lysate (20  $\mu$ g)

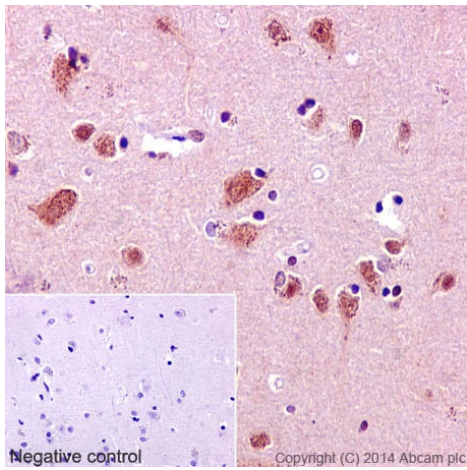
Lane 3: HeLa whole cell lysate (20  $\mu$ g)

Lane 4: HEK293 whole cell lysate (20  $\mu$ g)

Lanes 1 - 4: Merged signal (red and green).

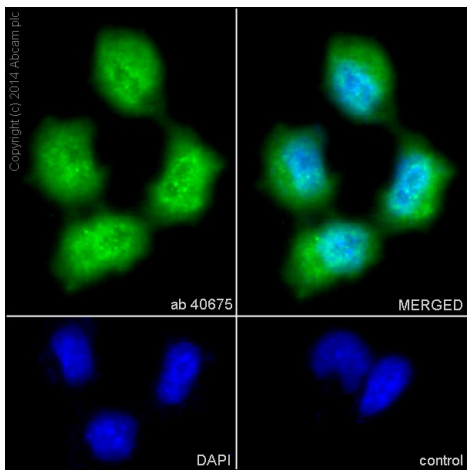
Green - ab40675 observed at 65 kDa. Red - loading control, ab8245, observed at 37 kDa.

Ab40675 was shown to specifically react with TRAF6 in wild-type cells, along with additional cross-reactive bands as signal was lost in TRAF6 knockout HAP1 cells. Wild-type and TRAF6 knockout samples were subjected to SDS-PAGE. Ab40675 and ab8245 (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/500 dilution and 1/10000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye<sup>®</sup> 800CW) preabsorbed ab216773 and Goat anti-Mouse IgG H&L (IRDye<sup>®</sup> 680RD) preabsorbed ab216776 secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cerebral cortex tissue labelling TRAF6 with purified ab40675 at 1/50. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. [ab97051](#), a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

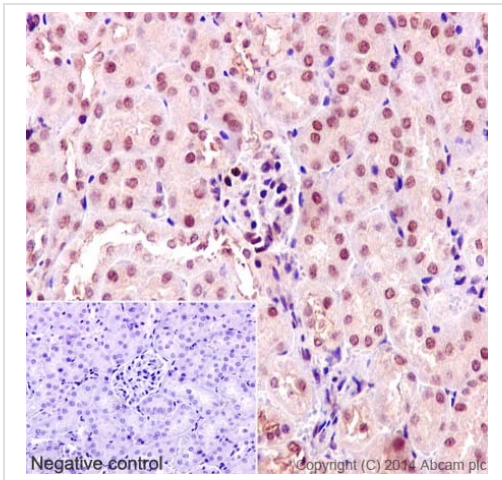
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRAF6 antibody [EP592Y] (ab40675)



Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling TRAF6 with purified ab40675 at 1/50. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. [ab150077](#), an Alexa Fluor<sup>®</sup> 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain.

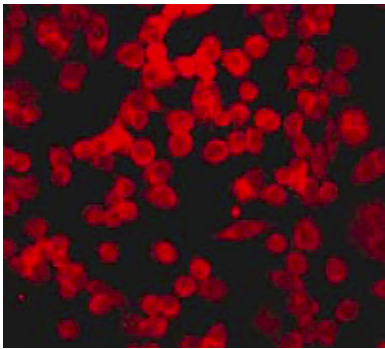
Immunocytochemistry/ Immunofluorescence - Anti-TRAF6 antibody [EP592Y] (ab40675)

Control: primary antibody (1/50) and secondary antibody, [ab150120](#), an Alexa Fluor<sup>®</sup> 594-conjugated goat anti-mouse IgG (1/500).



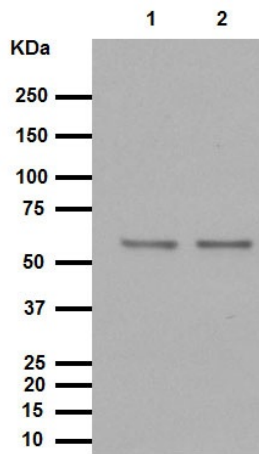
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse kidney tissue labelling TRAF6 with purified ab40675 at 1/50. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. [ab97051](#), a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRAF6 antibody [EP592Y] (ab40675)



Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling TRAF6 with unpurified ab40675 at 1/250.

Immunocytochemistry/ Immunofluorescence - Anti-TRAF6 antibody [EP592Y] (ab40675)



Western blot - Anti-TRAF6 antibody [EP592Y]  
(ab40675)

**All lanes** : Anti-TRAF6 antibody [EP592Y]  
(ab40675) at 1/5000 dilution (purified)

**Lane 1** : Jurkat cell lysate

**Lane 2** : HeLa cell lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

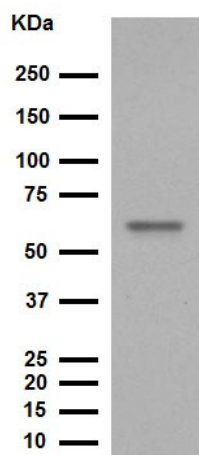
**All lanes** : Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

**Predicted band size:** 63 kDa

**Observed band size:** 58 kDa

Blocking buffer and concentration: 5%  
NFDN/TBST.

Diluting buffer and concentration: 5% NFDN  
/TBST.



Western blot - Anti-TRAF6 antibody [EP592Y]  
(ab40675)

Anti-TRAF6 antibody [EP592Y] (ab40675) at  
1/1000 dilution (purified) + HEK293 cell lysate  
at 20 µg

**Secondary**

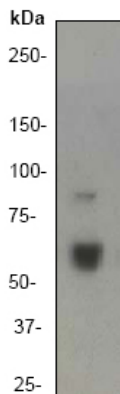
Peroxidase-conjugated goat anti-rabbit IgG  
(H+L) at 1/1000 dilution

**Predicted band size:** 63 kDa

**Observed band size:** 58 kDa

Blocking buffer and concentration: 5%  
NFDm/TBST.

Diluting buffer and concentration: 5% NFDm  
/TBST.

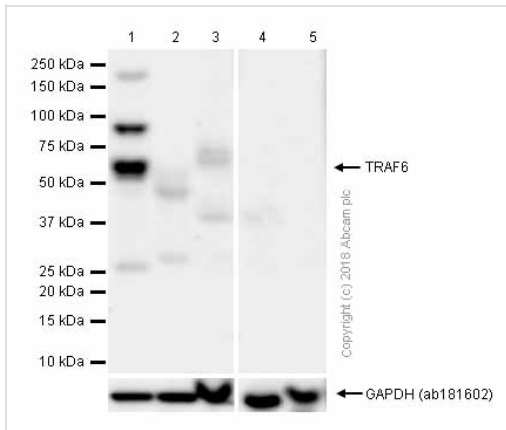


Western blot - Anti-TRAF6 antibody [EP592Y]  
(ab40675)

Anti-TRAF6 antibody [EP592Y] (ab40675) at  
1/2000 dilution (unpurified) + 10ug Jurkat cell  
lysate

**Predicted band size:** 63 kDa

**Observed band size:** 58 kDa



Western blot - Anti-TRAF6 antibody [EP592Y]  
(ab40675)

**All lanes :** Anti-TRAF6 antibody [EP592Y]  
(ab40675) at 1/1000 dilution

**Lane 1 :** HeLa (Human cervix  
adenocarcinoma epithelial cell) whole cell  
lysates

**Lane 2 :** Human heart lysates

**Lane 3 :** Human skeletal muscle lysates

**Lane 4 :** Mouse skeletal muscle lysates

**Lane 5 :** Rat skeletal muscle lysates

Lysates/proteins at 15 µg per lane.

### Secondary

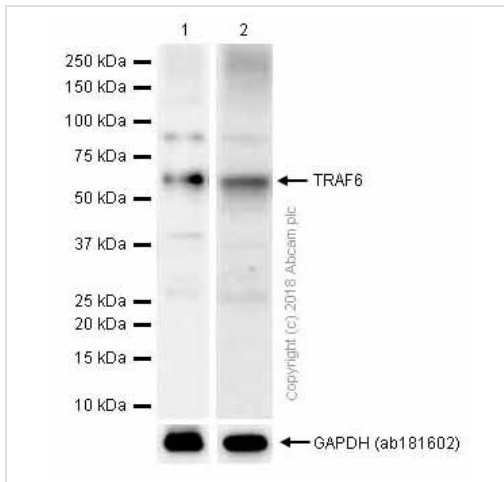
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP)  
(ab97051) at 1/20000 dilution (Goat Anti-  
Rabbit IgG, (H+L), Peroxidase conjugated)

**Predicted band size:** 63 kDa

**Exposure time:** 70 seconds

This antibody is unsuitable for detecting tissue  
lysates.





Western blot - Anti-TRAF6 antibody [EP592Y]  
(ab40675)

**All lanes :** Anti-TRAF6 antibody [EP592Y]  
(ab40675) at 1/1000 dilution

**Lane 1 :** Raw264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysates

**Lane 2 :** PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysates

Lysates/proteins at 15 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP)  
(ab97051) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

**Predicted band size:** 63 kDa

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