abcam

Product datasheet

Anti-TRAF6 antibody [EP592Y] - BSA and Azide free ab227560

敲除验证 重组 RabMAb

11 References 7 图像

概述

产品名称	Anti-TRAF6抗体[EP592Y] - BSA and Azide free
描述	兔单克隆抗体[EP592Y] to TRAF6 - BSA and Azide free
宿主	Rabbit
特异性	This antibody is unsuitable for detecting tissue lysates in WB application.
经测试应用	**适用于:** WB, ICC/IF, IHC-P
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HAP1, Daudi, Jurkat, HEK293 and HeLa cell lysates. IHC-P: Human cerebral cortex and mouse kidney tissues. ICC/IF: HeLa cells.
常规说明	ab227560 is the carrier-free version of **ab40675**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.20 Constituent: PBS

无载体	**是**
纯度	Protein A purified
克隆	单克隆
克隆编号	EP592Y
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab227560于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

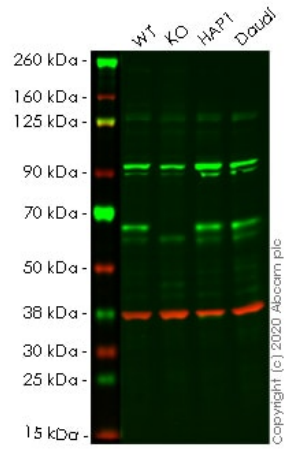
应用	Ab评论	说明
WB		Use at an assay dependent concentration. Detects a band of approximately 58 kDa (predicted molecular weight: 63 kDa).
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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 agressive 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



Western blot - Anti-TRAF6 antibody [EP592Y] - BSA and Azide free (ab227560)

All lanes : Anti-TRAF6 antibody [EP592Y] (**ab40675**) at 1/500 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : TRAF6 knockout HeLa cell lysate
Lane 3 : HAP1 cell lysate
Lane 4 : Daudi cell lysate

Lysates/proteins at 20 µg per lane.

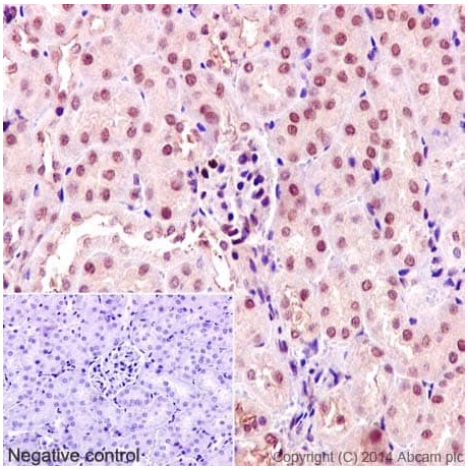
Performed under reducing conditions.

Predicted band size: 63 kDa
Observed band size: 65 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab40675**).

Lanes 1- 4: Merged signal (red and green). Green - **ab40675** observed at 65 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) observed at 37 kDa.

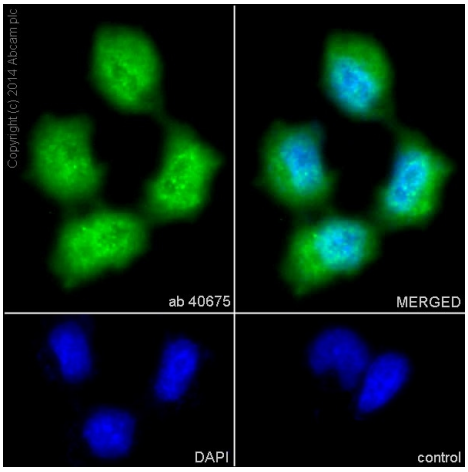
ab40675 was shown to react with TRAF6 in wild-type HeLa cells in western blot. Loss of signal was observed when knockout cell line **ab266009** (knockout cell lysate **ab257760**) was used. Wild-type HeLa and TRAF6 knockout HeLa cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. **ab40675** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) overnight at 4°C at a 1 in 500 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye®800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye®680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRAF6 antibody [EP592Y] - BSA and Azide free (ab227560)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab40675**).

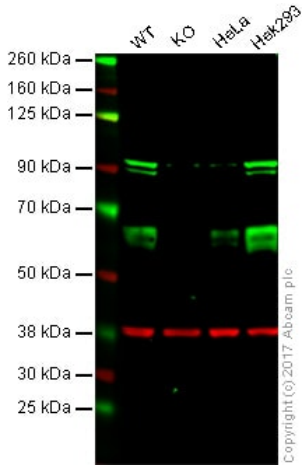


Immunocytochemistry/ Immunofluorescence - Anti-TRAF6 antibody [EP592Y] - BSA and Azide free (ab227560)

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® 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain.

Control: primary antibody (1/50) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab40675**).



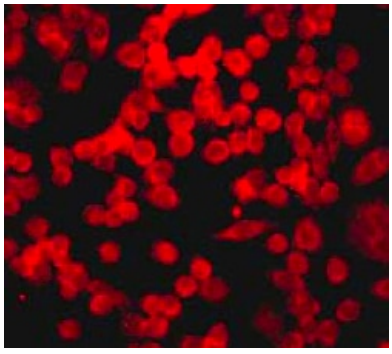
Western blot - Anti-TRAF6 antibody [EP592Y] - BSA and Azide free (ab227560)

This WB data was generated using the same anti-TRAF6 antibody clone, EP592Y, in a different buffer formulation (cat# **ab40675**).

Lane 1: Wild type HAP1 whole cell lysate (20 µg)
Lane 2: TRAF6 knockout HAP1 whole cell lysate (20 µg)
Lane 3: HeLa whole cell lysate (20 µg)
Lane 4: HEK293 whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - **ab40675** observed at 65 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

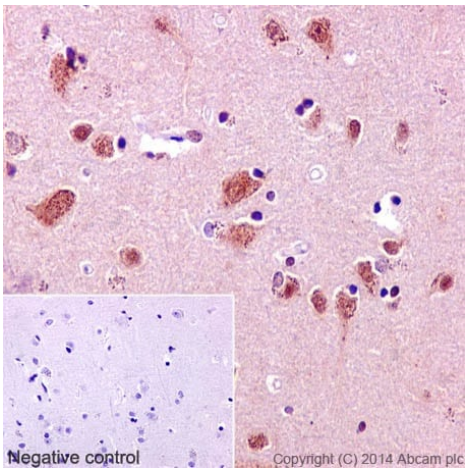
Ab40675 was shown to specifically react with TRAF6 in wild-type cells, along with additional cross-reactive bands as signal was lost in TRAF6 knockout HAP1 cells. Wild-type and TRAF6 knockout samples were subjected to SDS-PAGE. Ab40675 and **ab8245** (Mouse anti GAPDH loading control) were incubated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



Immunocytochemistry/ Immunofluorescence - Anti-TRAF6 antibody [EP592Y] - BSA and Azide free (ab227560)

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

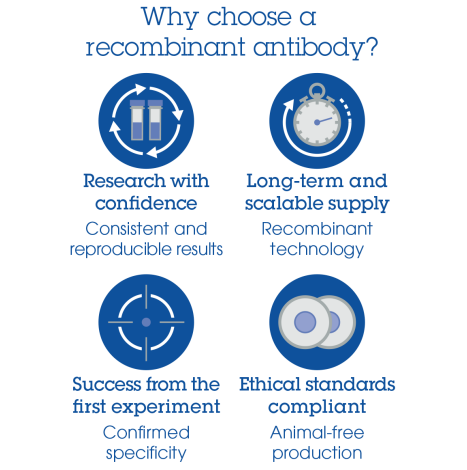
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab40675**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRAF6 antibody [EP592Y] - BSA and Azide free (ab227560)

This IHC data was generated using the same anti-TRAF6 antibody clone, EP592Y, in a different buffer formulation (cat# **ab40675**).

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.



Anti-TRAF6 antibody [EP592Y] - BSA and Azide free (ab227560)

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