Product name: Anti-TNFAIP3 antibody [59A426] ab13597

Description: Mouse monoclonal [59A426] to TNFAIP3

Host species: Mouse

Tested applications: Suitable for: IHC-P, Flow Cyt, WB, ICC/IF, IP

Species reactivity: Reacts with: Mouse, Rat, Human

Immunogen: Recombinant fusion protein of full length TNFAIP3 (Human).

Epitope: The epitope has been mapped to the C-terminal portion of A20, amino acids 440-790.

Positive control: Whole cell lysate from Daudi cells.

Properties

Form: Liquid

Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Storage buffer: Preservative: 0.02% Sodium azide
Constituent: PBS

Purity: Protein G purified

Clonality: Monoclonal

Clone number: 59A426

Isotype: IgG1

Applications

Our Abpromise guarantee covers the use of ab13597 in the following tested applications.

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

<table>
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<tr>
<th>Application</th>
<th>Abreviews</th>
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<tbody>
<tr>
<td>IHC-P</td>
<td>Use at an assay dependent concentration. PubMed: 19637364</td>
<td></td>
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</table>
**Function**
Ubiquitin-editing enzyme that contains both ubiquitin ligase and deubiquitinase activities. Essential component of a ubiquitin-editing protein complex, comprising also RNF11, ITCH and TAX1BP1, that ensures the transient nature of inflammatory signaling pathways. Upon TNF stimulation, deubiquinates 'Lys-63'-polyubiquitin chains on RIPK1 and catalyzes the formation of 'Lys-48'-polyubiquitin chains. This leads to RIPK1 proteasomal degradation and consequently termination of the TNF- or LPS-mediated activation of NF-kappa-B. In vitro able to deubiquitinate both 'Lys-48'- and 'Lys-63' polyubiquitin chains. Inhibitor of programmed cell death. Has a role in the function of the lymphoid system.

**Sequence similarities**
Belongs to the peptidase C64 family.
Contains 7 A20-type zinc fingers.
Contains 1 OTU domain.

**Domain**
The A20-type zinc fingers mediate the ubiquitin ligase activity.
The OTU domain mediates the deubiquitinase activity.

**Cellular localization**
Cytoplasm. Nucleus.

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**Target**

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**Application** Abreviews Notes
Flow Cyt Use 1-2µg for 10^6 cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB ★★★★★ Use a concentration of 2 - 4 µg/ml. Detects a band of approximately 70 kDa.
ICC/IF Use at an assay dependent concentration.
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**Target**

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**Function**

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**Sequence similarities**

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**Domain**

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**Cellular localization**

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**Images**

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human placenta tissue labelling TNFAIP3 with ab13597 at 5µg/ml. Staining was enhanced by boiling tissue sections in 10mM sodium citrate buffer, pH6.0 for 10-20 minutes followed by cooling at room temperature for 20 minutes.

Anti-TNFAIP3 antibody [59A426] (ab13597) at 4 µg/ml + Jurkat cell lysate
All lanes: Anti-TNFAIP3 antibody [59A426] (ab13597) at 1 µg/ml

Lane 1: Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate
Lane 2: HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes: Goat Anti-Mouse IgG H&L (HRP) preadsorbed (ab97040) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Observed band size: 90 kDa
Additional bands at: 15 kDa, 34 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 20 minutes
Overlay histogram showing HepG2 cells stained with ab13597 (red line). The cells were fixed with methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab13597, 2µg/1x10^6 cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a decreased signal in HepG2 cells fixed with methanol (5 min)/permeabilized in 0.1% PBS-Tween used under the same conditions.

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