abcam

Product datasheet

# Anti-TNFAIP3 antibody [59A426] ab13597

敲除验证

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## 概述

| | |
|---|---|
| **产品名称** | Anti-TNFAIP3抗体[59A426] |
| **描述** | 小鼠单克隆抗体[59A426] to TNFAIP3 |
| **宿主** | Mouse |
| **经测试应用** | **适用于:** Flow Cyt (Intra), IHC-P, WB<br>**不适用于:** ICC |
| **种属反应性** | **与反应:** Human |
| **免疫原** | Recombinant full length protein corresponding to Human TNFAIP3.<br>Database link: **P21580** |
| **表位** | The epitope has been mapped to the C-terminal portion of A20, amino acids 440-790. |
| **阳性对照** | WB: Daudi and HeLa cell lysates. Flow Cyt (Intra): HepG2 cells |
| **常规说明** | The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.<br>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As |

## 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 or -80°C. Avoid freeze / thaw cycle. |
| **存储溶液** | pH: 7.40<br>Preservative: 0.02% Sodium azide<br>Constituent: PBS |
| **纯度** | Protein G purified |
| **克隆** | 单克隆 |
| **克隆编号** | 59A426 |

**同种型** IgG1

## 应用

**The Abpromise guarantee** **Abpromise™承诺保证使用ab13597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 |
|---|---|---|
| **Flow Cyt (Intra)** | | Use 1-2µg for $10^6$ cells.<br>**ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody. |
| **IHC-P** | | Use at an assay dependent concentration. |
| **WB** | ★★★☆☆ (1) | Use a concentration of 2 - 4 µg/ml. Detects a band of approximately 70 kDa. |

**应用说明** Is unsuitable for ICC.

## 靶标

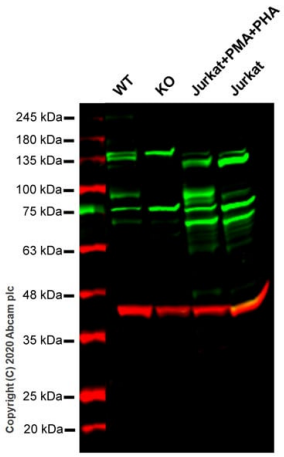
**功能** Ubiquitin-editing enzyme that contains both ubiquitin ligase and deubiquitinase activities. Essential component of a ubiquitin-editing protein complex, comprising also RNF11, ITCH and TAX1BP1, that ensures the transient nature of inflammatory signaling pathways. Upon TNF stimulation, deubiquitinates '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.

**序列相似性** Belongs to the peptidase C64 family.
Contains 7 A20-type zinc fingers.
Contains 1 OTU domain.

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

**细胞定位** Cytoplasm. Nucleus.

## 图片




Western blot - Anti-TNFAIP3 antibody [59A426] (ab13597)

**All lanes :** Anti-TNFAIP3 antibody [59A426] (ab13597) at 1/500 dilution

**Lane 1 :** Wild-type HeLa cell lysate
**Lane 2 :** TNFAIP3 knockout HeLa cell lysate
**Lane 3 :** Jurkat cell treated with 5ng/ml PMA for 48 hours and then treated with 2µg/ml PHA for 48 hours, whole cell lysate
**Lane 4 :** Untreated Jurkat cell lysate

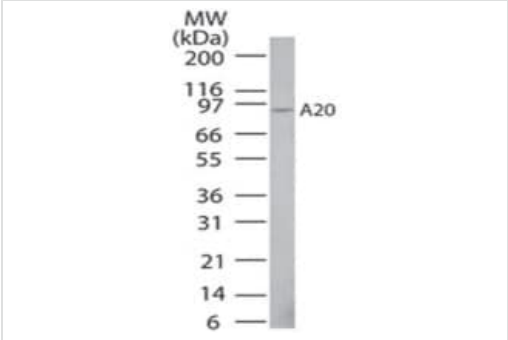
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

**Observed band size:** 80 kDa

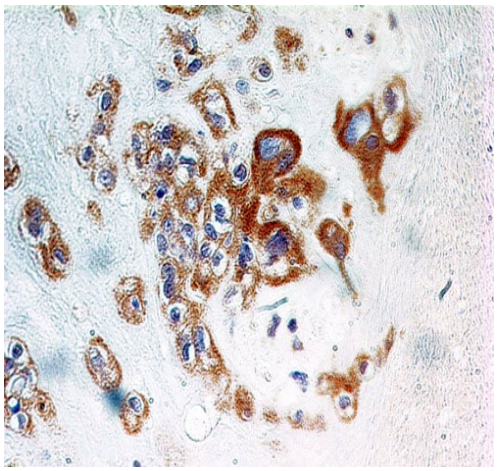
**Lanes 1-4:** Merged signal (red and green). Green - ab13597 observed at 80 kDa. Red - loading control, **ab181602** observed at 37 kDa.

ab13597 Anti-TNFAIP3 antibody [59A426] was shown to specifically react with TNFAIP3 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265983** (knockout cell lysate **ab257112**) was used. Wild-type and TNFAIP3 knockout samples were subjected to SDS-PAGE. ab13597 and Anti-GAPDH antibody [EPR16891] - Loading Control (**ab181602**) were incubated overnight at 4°C at 1 in 500 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed (**ab216772**) and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (**ab216777**) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.




Western blot - Anti-TNFAIP3 antibody [59A426] (ab13597)

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TNFAIP3 antibody [59A426] (ab13597)

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.


Western blot - Anti-TNFAIP3 antibody [59A426] (ab13597)

**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.

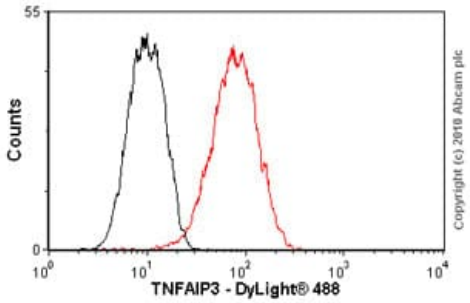
**Secondary**
**All lanes :** Goat Anti-Mouse IgG H&L (HRP) preadsorbed (**ab97040**) at 1/5000 dilution

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




Flow Cytometry (Intracellular) - Anti-TNFAIP3 antibody [59A426] (ab13597)

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/1x$10^6$ 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/1x$10^6$ 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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