

Anti-IRF3 antibody [IRF35I218] ab50772

★★★★★ [3 Abreviews](#) [9 References](#) [4 图像](#)

概述

产品名称	Anti-IRF3抗体[IRF35I218]
描述	小鼠单克隆抗体[IRF35I218] to IRF3
宿主	Mouse
经测试应用	适用于: ICC/IF, WB, Flow Cyt
种属反应性	与反应: Human
免疫原	Recombinant fragment: VAWVNKSRTFR FRIPWKHGLR QDAQQEDFGI FQAWAEATGA YVGRDKPDL PTWKRNFSA LNRKEGLRLA EDRSKD, corresponding to amino acids 24-150 of Human IRF3 Run BLAST with ExPASy Run BLAST with NCBI
阳性对照	HEK293 whole cell lysate RIPA lysate of HeLa cells Hela cells
常规说明	<p>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.</p> <p>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</p>

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 long term.
存储溶液	pH: 7.40 Preservative: 0.05% Sodium azide Constituents: 0.316% Tris HCl, 1% BSA, 1.16% Sodium chloride
纯度	Tissue culture supernatant
纯化说明	Concentrated and dialyzed culture medium (protein free medium) of hybridoma
克隆	单克隆
克隆编号	IRF35I218

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用 ab50772 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
ICC/IF		1/10.
WB	★★★★★ (3)	1/50 - 1/100. Detects a band of approximately 55 kDa (predicted molecular weight: 47 kDa).
Flow Cyt		Use 1 µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

靶标

功能

Mediates interferon-stimulated response element (ISRE) promoter activation. Functions as a molecular switch for antiviral activity. DsRNA generated during the course of a viral infection leads to IRF3 phosphorylation on the C-terminal serine/threonine cluster. This induces a conformational change, leading to its dimerization, nuclear localization and association with CREB binding protein (CREBBP) to form dsRNA-activated factor 1 (DRAF1), a complex which activates the transcription of genes under the control of ISRE. The complex binds to the IE and PRDIII regions on the IFN-alpha and IFN-beta promoters respectively. IRF-3 does not have any transcription activation domains.

组织特异性

Expressed constitutively in a variety of tissues.

序列相似性

Belongs to the IRF family.

Contains 1 IRF tryptophan pentad repeat DNA-binding domain.

翻译后修饰

Constitutively phosphorylated on many serines residues. C-terminal serine/threonine cluster is phosphorylated in response of induction by IKBKE and TBK1. Ser-385 and Ser-386 may be specifically phosphorylated in response to induction. An alternate model propose that the five serine/threonine residues between 396 and 405 are phosphorylated in response to a viral infection. Phosphorylation, and subsequent activation of IRF3 is inhibited by vaccinia virus protein E3.

Ubiquitinated; ubiquitination involves RBCK1 leading to proteasomal degradation.

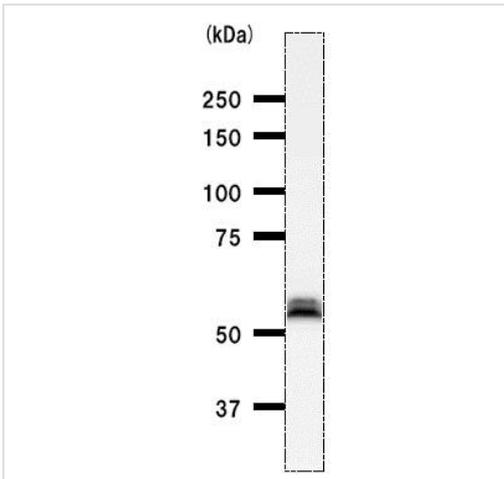
Polyubiquitinated; ubiquitination involves TRIM21 leading to proteasomal degradation.

ISGylated by HERC5 resulting in sustained IRF3 activation and in the inhibition of IRF3 ubiquitination by disrupting PIN1 binding. The phosphorylation state of IRF3 does not alter ISGylation.

细胞定位

Cytoplasm. Nucleus. Shuttles between cytoplasmic and nuclear compartments, with export being the prevailing effect. When activated, IRF3 interaction with CREBBP prevents its export to the cytoplasm.

图片



Western blot - Anti-IRF3 antibody [IRF35I218] (ab50772)

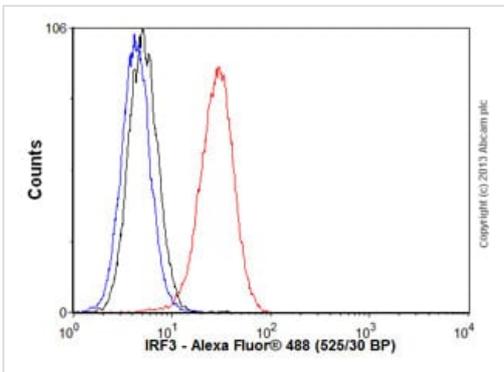
Anti-IRF3 antibody [IRF35I218] (ab50772) at 1/50 dilution + HT-1080 whole cell lysate at 25 μ g

Secondary

Anti mouse IgG at 1/2500 dilution

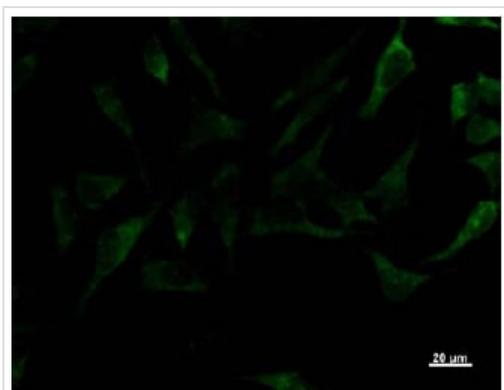
Predicted band size: 47 kDa

Observed band size: 55 kDa



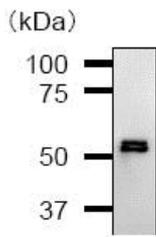
Flow Cytometry - Anti-IRF3 antibody [IRF35I218] (ab50772)

Overlay histogram showing HeLa cells stained with ab50772 (red line). The cells were fixed with 80% 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 (ab50772, 1 μ g/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) (**ab150113**) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 1 μ g/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.



Immunocytochemistry/ Immunofluorescence - Anti-IRF3 antibody [IRF35I218] (ab50772)

Immunofluorescent staining of HeLa cells with a 1/10 dilution of ab50772 as primary antibody and AlexaFluor®488 conjugated Goat Anti-mouse IgG diluted 1/200 as the secondary antibody



Western blot - Anti-IRF3 antibody [IRF35I218]
(ab50772)

Anti-IRF3 antibody [IRF35I218] (ab50772) at 1/100 dilution + Ripa lysate of Hela cells at 500 µg

Secondary

Anti-mouse IgG at 1/1000 dilution

Predicted band size: 47 kDa

Observed band size: 55 kDa

IRF3 antibody [IRF35I218] (ab50772) at 1/100 dilution + Ripa lysate of Hela cells at 500 µg Secondary Anti-mouse IgG at 1/1000 dilution

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