abcam

Product datasheet

Anti-IFNGR1 antibody [EPR7866] ab134070

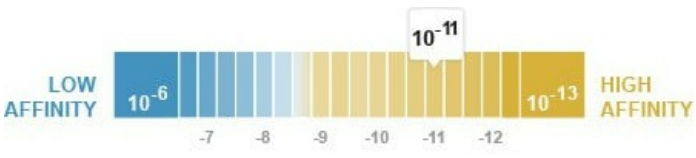
敲除验证 重组 RabMAb

★★★★★ 1 Abreviews 7 References 9 图像

概述

产品名称	Anti-IFNGR1抗体[EPR7866]
描述	兔单克隆抗体[EPR7866] to IFNGR1
宿主	Rabbit
经测试应用	**适用于:** WB, IHC-P, Flow Cyt (Intra), ICC/IF **不适用于:** IP
种属反应性	**与反应:** Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HeLa, HEK-293T and HepG2 cell lysates. IHC-P: Human tonsil tissue. Flow Cyt (intra): HeLa cells, HEK293 cells. ICC/IF: MCF7 cells
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
解离常数 (K_D)	K_D = 1.20 x 10^{-11} M  Learn more about K_D
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide

	Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR7866
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab134070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。

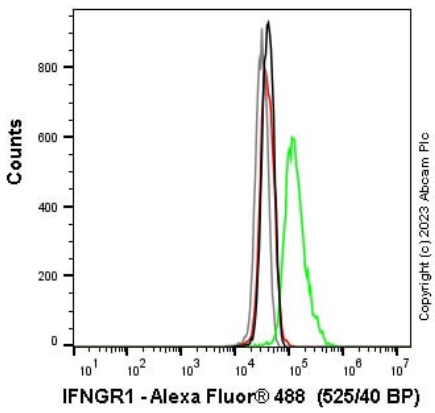
应用	Ab评论	说明
WB		1/1000 - 1/10000. Detects a band of approximately 75-90 kDa (predicted molecular weight: 54 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
Flow Cyt (Intra)		1/1000. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★★★ (1)	1/100.

应用说明 Is unsuitable for IP.

靶标

功能	Receptor for interferon gamma. Two receptors bind one interferon gamma dimer.
疾病相关	Defects in IFNGR1 are a cause of mendelian susceptibility to mycobacterial disease (MSMD) [MIM:209950]; also known as familial disseminated atypical mycobacterial infection. This rare condition confers predisposition to illness caused by moderately virulent mycobacterial species, such as Bacillus Calmette-Guerin (BCG) vaccine and environmental non-tuberculous mycobacteria, and by the more virulent Mycobacterium tuberculosis. Other microorganisms rarely cause severe clinical disease in individuals with susceptibility to mycobacterial infections, with the exception of Salmonella which infects less than 50% of these individuals. The pathogenic mechanism underlying MSMD is the impairment of interferon-gamma mediated immunity whose severity determines the clinical outcome. Some patients die of overwhelming mycobacterial disease with lepromatous-like lesions in early childhood, whereas others develop, later in life, disseminated but curable infections with tuberculoid granulomas. MSMD is a genetically heterogeneous disease with autosomal recessive, autosomal dominant or X-linked inheritance.
序列相似性	Belongs to the type II cytokine receptor family. Contains 2 fibronectin type-III domains. Contains 2 Ig-like C2-type (immunoglobulin-like) domains.
翻译后修饰	Phosphorylated at Ser/Thr residues.
细胞定位	Membrane.

图片



Flow Cytometry (Intracellular) - Anti-IFNGR1 antibody [EPR7866] (ab134070)

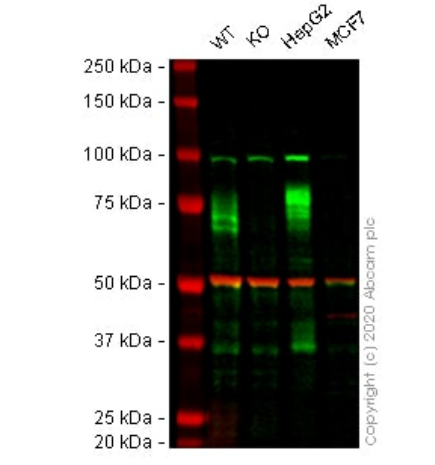
Flow cytometry overlay histogram showing wild-type HEK293 (green line) and IFNGR1 knockout HEK293 stained with ab134070 (red line). The cells were fixed with 4% formaldehyde (10 min) and then permeabilised with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS containing 10% normal goat serum to block non-specific protein-protein interaction followed by the antibody (ab134070) (1x 10^6 in 100µl at 0.2 µg/ml (1/10000)) for 30min at 22°C.

The secondary antibody Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed was incubated at 1/4000 for 30min at 22°C

Isotype control antibody Recombinant Rabbit IgG, monoclonal [EPR25A] - Isotype Control was used at the same concentration and conditions as the primary antibody (wild-type HEK293 - black line, IFNGR1 knockout HEK293 - grey line). Unlabelled sample was also used as a control (this line is not shown for the purpose of simplicity).

Acquisition of >5000 events were collected using a 50 mW Blue laser (488nm) and 525/40 bandpass filter.

This antibody gave a positive signal in HEK293 Fixed with 80% methanol (5 min) / permeabilised with 0.1% PBS-Triton X-100 for 15 min under the same conditions.



Western blot - Anti-IFNGR1 antibody [EPR7866] (ab134070)

All lanes : Anti-IFNGR1 antibody [EPR7866] (ab134070) at 1/1000 dilution

Lane 1 : Wild-type HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate
Lane 2 : IFNGR1 knockout HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate
Lane 3 : Hep G2 (Human liver hepatocellular carcinoma cell line) whole cell lysate
Lane 4 : MCF7 (Human breast adenocarcinoma cell line) whole cell lysate

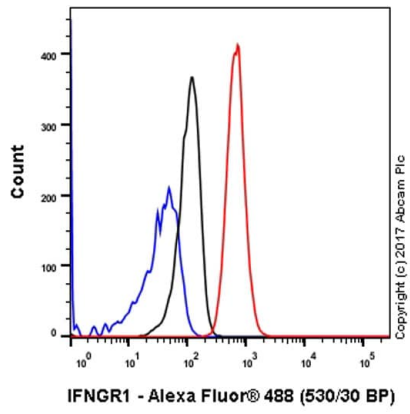
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 54 kDa
Observed band size: 60-80 kDa

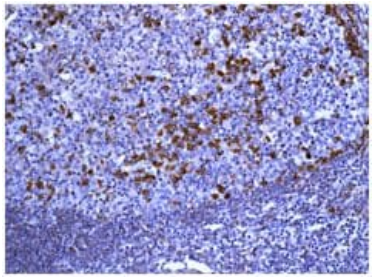
Lanes 1 - 4: Merged signal (red and green). Green - ab134070 observed at 60-80 kDa. Red - loading control **ab7291** (Mouse anti-Alpha Tubulin [DM1A] observed at 55kDa.

ab134070 was shown to react with IFNGR1 in wild-type HEK-293 cells in western blot with loss of signal observed in IFNGR1 knockout sample. Wild-type and IFNGR1 knockout HEK-293 cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with ab134070 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A] overnight at 4°C at a 1 in 1000 Dilution and a 1 in 20000 dilution respectively. Blots were incubated 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 in 20000 dilution for 1 hour at room temperature before imaging.



Flow Cytometry (Intracellular) - Anti-IFNGR1 antibody [EPR7866] (ab134070)

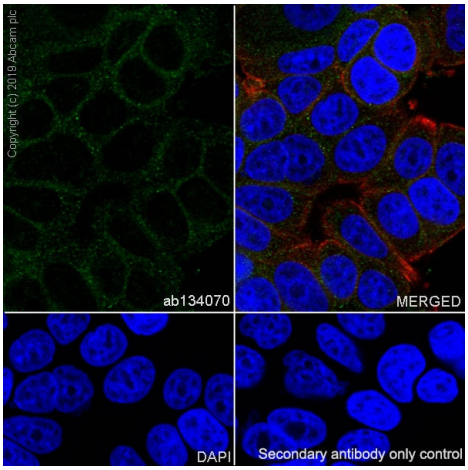
Intracellular Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling IFNGR1 (red) with ab134070 at a 1/1000 dilution. Cells were fixed with 80% methanol and permeabilized with 0.1% Tween-20. A goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) was used as the secondary antibody at a 1/2000 dilution. Black - Rabbit monoclonal IgG (**ab172730**). Blue (unlabeled control) - Cells without incubation with the primary and secondary antibodies.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IFNGR1 antibody [EPR7866] (ab134070)

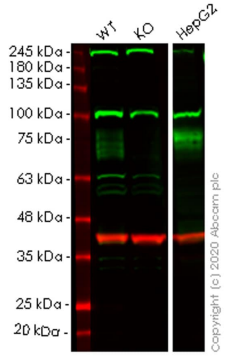
Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labelling IFNGR1 with ab134070 at 1/100 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-IFNGR1 antibody [EPR7866] (ab134070)

Immunocytochemistry/ Immunofluorescence analysis of MCF7 (human breast adenocarcinoma epithelial cell) cells labeling IFNGR1 with purified ab134070 at 1/100 dilution (10 µg/mL). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/mL) dilution. DAPI (blue) was used as nuclear counterstain. **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL) was used as the secondary antibody only control.



Western blot - Anti-IFNGR1 antibody [EPR7866] (ab134070)

All lanes : Anti-IFNGR1 antibody [EPR7866] (ab134070) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : IFNGR1 knockout HeLa cell lysate
Lane 3 : HepG2 cell lysate

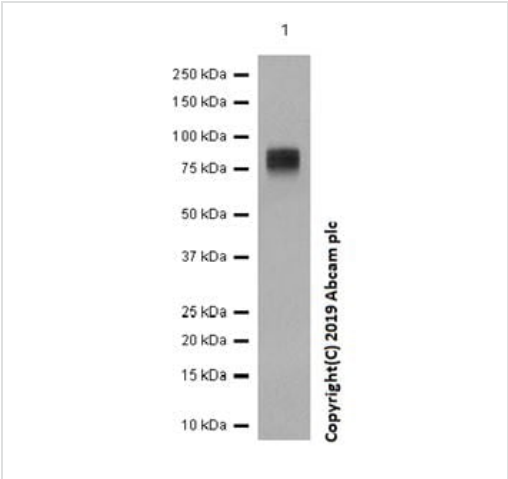
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 54 kDa
Observed band size: 70-95 kDa

Lanes 1-3: Merged signal (red and green). Green - ab134070 observed at 70-95 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab134070 Anti-IFNGR1 antibody [EPR7866] was shown to specifically react with IFNGR1 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265111** (knockout cell lysate **ab257477**) was used. Wild-type and IFNGR1 knockout samples were subjected to SDS-PAGE. ab134070 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 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.



Western blot - Anti-IFNGR1 antibody [EPR7866] (ab134070)

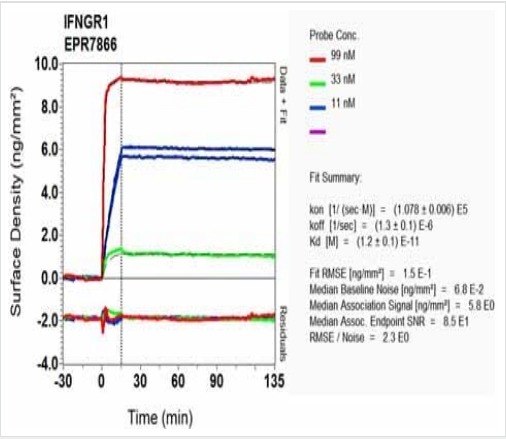
Anti-IFNGR1 antibody [EPR7866] (ab134070) at 1/1000 dilution + HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysate at 20 µg

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

Predicted band size: 54 kDa
Observed band size: 75-90 kDa

Exposure time: 60 seconds

Blocking/Diluting buffer and concentration: 5% NFDM/TBST

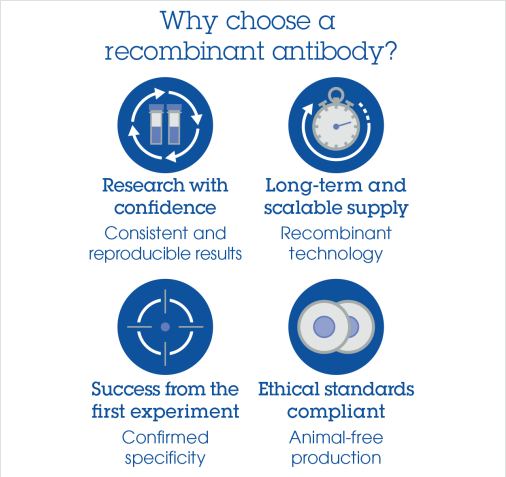


OI-RD Scanning - Anti-IFNGR1 antibody [EPR7866] (ab134070)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D



Anti-IFNGR1 antibody [EPR7866] (ab134070)

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