abcam

Product datasheet

Anti-IFI16 antibody [2E3] ab55328

4 Abreviews 22 References 4 Images

Overview

Product name	Anti-IFI16 antibody [2E3]
Description	Mouse monoclonal [2E3] to IFI16
Host species	Mouse
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF, Flow Cyt, Purification
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment: FVNGVFEVHK KNVRGEFTYY EIQDNTGKME VVVHGRLTTI NCEEGDKLKL TCFELAPKSG NTGELRSVIH SHIKVIKTRK NKKDILNPDS SMETSPDFFF , corresponding to amino acids 630-730 of Human IFI16 Run BLAST with ExPASy Run BLAST with NCBI
General notes	This product was changed from ascites to tissue culture supernatant on 24/1/19. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team. 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. 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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.4
Purity	Tissue culture supernatant
Purification notes	Purified from TCS.
Clonality	Monoclonal
Clone number	2E3

Isotype	IgG2b
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab55328 in the following tested applications.

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

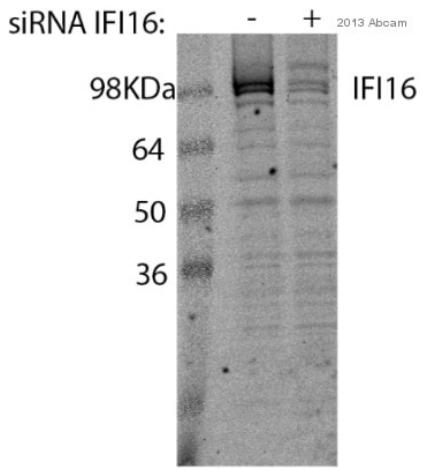
Application	Abreviews	Notes
WB	★★★★★ (2)	Use at an assay dependent concentration. Predicted molecular weight: 88 kDa.
IHC-P		Use at an assay dependent concentration.
ICC/IF	★★★★★ (2)	Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.
Purification		Use at an assay dependent concentration. PubMed: 22691496

Target

Relevance Interferon (IFN) Inducible 16 (IFI16) protein belongs to a family of HIN 200 human and mouse proteins. IFI16 is a nuclear protein comtaining regulatory domains such as DNA binding domain, transcriptional regulatory domain and DAPIN/PAAD domain. IFI16 has three isotypes A, B, and C (85-95 kDa), which arise as a result of mRNA alternative splicing. All are phosphorylated on serine and threonine residues and can homo and heterodimerize. Expression is restricted to the nuclei of hematopoietic cells, fibroblasts and epithelial cells. IFI16 expression in hematopoietic cells of myeloid lineage is tightly regulated and highly induced in the differentiation and proliferation of the cell. Due to its localization in the nucleus, regulation of protein expression, and ability to bind DNA, it is assumed that IFI16 has a role in transcription regulation of cell differentiation. In addition, it was found that IFI16 can act as a transcriptional repressor and is involved in regulation and activation of p53 in cancer cells.

Cellular localization Nucleus. Cytoplasm. Note: Cellular distribution is dependent on the acetylation status of the multipartite nuclear localization signal (NLS); NLS acetylation promotes cytoplasmic localization.

Images



Western blot - Anti-IFI16 antibody [2E3] (ab55328)

This image is courtesy of an Abreview submitted by Jason Dehart

All lanes : Anti-IFI16 antibody [2E3] (ab55328) at 1/1000 dilution

Lane 1 : Human sjsa1 whole cell lysate without siRNA to IFI16
Lane 2 : Human sjsa1 whole cell lysate with siRNA to IFI16

Lysates/proteins at 30 µg per lane.

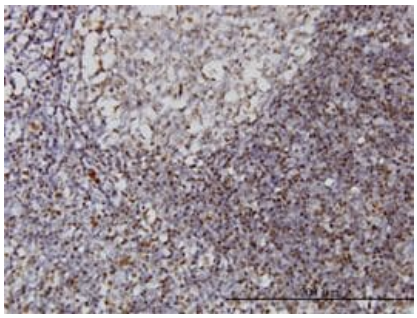
Secondary
All lanes : IRDye® 680-conjugated Mouse anti-mouse IgG polyclonal at 1/5000 dilution

Performed under reducing conditions.

Predicted band size: 88 kDa
Observed band size: 98 kDa

Exposure time: 5 minutes

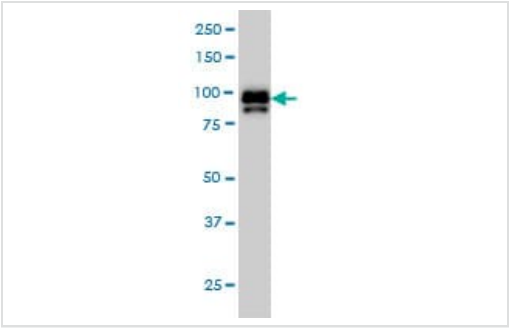
This image was generated using the ascites version of the product.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IFI16 antibody [2E3] (ab55328)

IFI16 antibody (ab55328) used in immunohistochemistry at 3ug/ml on formalin fixed and paraffin embedded human tonsil.

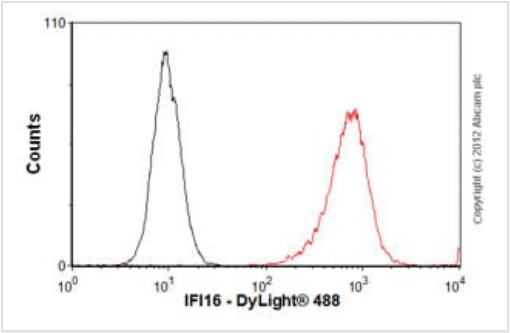
This image was generated using the ascites version of the product.



Western blot - Anti-IFI16 antibody [2E3] (ab55328)

IFI16 antibody (ab55328) at 1µg/lane + HeLa cell lysate at 25µg/lane.

This image was generated using the ascites version of the product.



Flow Cytometry - Anti-IFI16 antibody [2E3] (ab55328)

Overlay histogram showing Jurkat cells stained with ab55328 (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 (ab55328, 1µg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG2b [PLPV219] (**ab91366**, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in Jurkat cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

This image was generated using the ascites version of the product.

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