abcam

ab68481

Anti-IRF3 antibody [EPR2418Y]

Anti-IRF3 antibody [EPR2418Y] (ab68481) is a rabbit monoclonal antibody detecting IRF3 in **Western Blot, Flow Cytometry (Intra), IHC-P, ICC/IF**. Suitable for **Human, Mouse**.

- KO validated for confirmed specificity
- Biophysical QC for unrivalled batch-batch consistency
- Over 70 publications
- Trusted since 2008

Recombinant | RabMAb | KO Validated | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR2418Y
Purification technique	Affinity purification Protein A
Concentration	1.039 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Mouse, Human
Dilution info	-
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Human
Dilution info	1/1000
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/160

Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. MeOH fixationis recommended.

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/500
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Human
Dilution info	1/500
Notes	-

Target data

See full target information IRF3

Function

Key transcriptional regulator of type I interferon (IFN)-dependent immune responses which plays a critical role in the innate immune response against DNA and RNA viruses (PubMed:22394562, PubMed:24049179, PubMed:25636800, PubMed:27302953, PubMed:31340999, PubMed:36603579, PubMed:8524823, PubMed:39362857). Regulates the transcription of type I IFN genes (IFN-alpha and IFN-beta) and IFN-stimulated genes (ISG) by binding to an interferon-stimulated response element (ISRE) in their promoters (PubMed:11846977, PubMed:16846591, PubMed:16979567, PubMed:20049431, PubMed:32972995, PubMed:36603579, PubMed:8524823). Acts as a more potent activator of the IFN-beta (IFNB) gene than the IFN-alpha (IFNA) gene and plays a critical role in both the early and late phases of the IFNA/B gene induction (PubMed:16846591, PubMed:16979567, PubMed:20049431, PubMed:36603579). Found in an inactive form in the cytoplasm of uninfected cells and following viral infection, double-stranded RNA (dsRNA), or toll-like receptor (TLR) signaling, is phosphorylated by IKBKE and TBK1 kinases (PubMed:22394562, PubMed:25636800, PubMed:27302953, PubMed:36603579). This induces a conformational change, leading to its dimerization and nuclear localization and association with CREB

binding protein (CREBBP) to form dsRNA-activated factor 1 (DRAF1), a complex which activates the transcription of the type I IFN and ISG genes (PubMed:16154084, PubMed:27302953, PubMed:33440148, PubMed:36603579). Can activate distinct gene expression programs in macrophages and can induce significant apoptosis in primary macrophages (PubMed:16846591). In response to Sendai virus infection, is recruited by TOMM70:HSP90AA1 to mitochondrion and forms an apoptosis complex TOMM70:HSP90AA1:IRF3:BAX inducing apoptosis (PubMed:25609812). Key transcription factor regulating the IFN response during SARS-CoV-2 infection (PubMed:33440148).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-IRF3 antibody [EPR2418Y] (ab68481) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF) in Human, Mouse samples.

What is the molecular weight of IRF3?
Anti-IRF3 [EPR2418Y] (ab68481) specifically detects a band for IRF3 (UniProt: Q14653) at a molecular weight of 47kDa.

Trusted by the scientific community
Anti-IRF3 [EPR2418Y] (ab68481) was first used in a scientific publication in 2008 and has been cited over 70 times in peer-reviewed journals.

Specificity confirmed
The specificity of Anti-IRF3 antibody [EPR2418Y] (ab68481) has been confirmed by Western blot testing in IRF3 Knockout HAP1 cells.

Other related products
We have a range of other formats of antibody clone [EPR2418Y] also available for your convenience: ab68481, Carrier free - ab201809, HRP - ab205443, PE - ab209919, APC - ab310875, Alexa Fluor® 594 - ab311704, Alexa Fluor® 568 -

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Species reactivity
Rat: We have preliminary internal testing data to indicate this antibody may not react with this species.
Please contact us for more information.

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	IRF3 also known as Interferon Regulatory Factor 3 acts as an important transcription factor in the immune response. It has a molecular weight of approximately 47 kDa. The IRF3 protein is mainly expressed in the cytoplasm and nucleus of various cell types including immune cells such as macrophages and dendritic cells. The protein becomes activated through phosphorylation a process frequently identified in its phosphorylated form phospo-IRF3 or p-IRF3 which facilitates its role in immune function.
Biological function summary	IRF3 participates in the regulation of type I interferon (IFN) response a fundamental antiviral defense mechanism. IRF3 when phosphorylated forms a complex with CBP/p300 which then translocates to the nucleus to drive the expression of IFN-stimulated genes. This action strengthens the innate immune response and boosts the body's ability to counteract viral infections. Its activity and regulation are significant for maintaining a balanced immune response without excessive inflammation.
Pathways	IRF3 is involved in the Toll-like receptor (TLR) and RIG-I-like receptor (RLR) signaling pathways both essential in pathogen recognition and response. Within these pathways IRF3 interacts with proteins such as MAVS and TBK1 to propagate immune signaling. The activation of IRF3 in these pathways results in the production of type I interferons and other cytokines orchestrating an effective antiviral response. These interactions highlight the protein's central role in mediating immune signaling cascades.

Associated diseases and disorders	IRF3's malfunction or deregulation can contribute to autoimmune diseases and antiviral deficiencies. Conditions such as systemic lupus erythematosus (SLE) and chronic hepatitis B infection are linked to IRF3 activity. During autoimmune responses or viral persistence the aberrant activation of IRF3 can lead to inappropriate immune responses. The connection with proteins like STAT1 in these conditions highlights the complex network IRF3 engages in facilitating its impact on disease progression and immune dysregulation.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

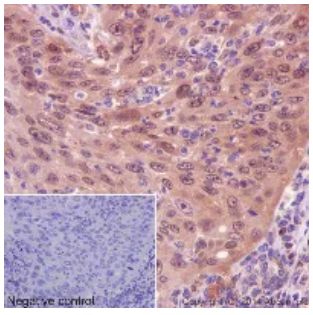
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

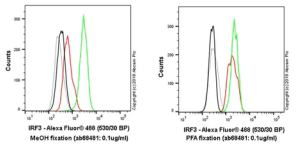
16 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRF3 antibody [EPR2418Y] (ab68481)

IRF3 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-IRF3 antibody

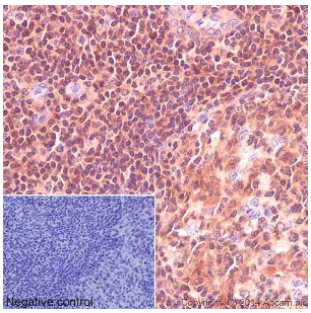
Immunohistochemical analysis of paraffin-embedded Human squamous cell carcinoma of cervix labeling IRF3 with ab68481at 1/500 dilution, followed by prediluted HRP Polymer for Rabbit/Mouse IgG. The negative control utilised PBS instead of primary antibody. Counter stained with Hematoxylin.
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-IRF3 antibody [EPR2418Y] (ab68481)

IRF3 Flow Cytometry (Intracellular) staining using rabbit Anti-IRF3 antibody

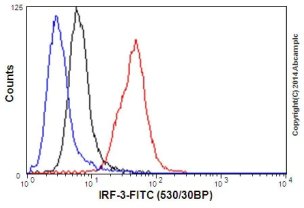
Overlay histogram showing HAP1 wildtype (green line) and HAP1-IRF3 knockout cells (red line) stained with ab68481. The cells were fixed with 80% methanol (5 min) (left pannel) or 4% formaldehyde (10 min) (right pannel), and then permeabilized with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS / 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (ab68481, 0.1µg/ml) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H&L) presorbed (ab150081) at 1/2000 dilution for 30 min at 22°C. A rabbit IgG isotype control antibody (ab172730) was used at the same concentration and conditions as the primary antibody (HAP1 wildtype - black line, HAP1-IRF3 knockout - grey line). Unlabelled sample was also used as a control (this line is not shown for the purpose of simplicity). Acquisition of >5,000 events were collected using a 50 mW Blue laser (488nm) and 530/30 bandpass filter.
Note: We recommend fixing cells using MeOHinstead of PFA toget optimal results.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRF3 antibody [EPR2418Y] (ab68481)

IRF3 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-IRF3 antibody

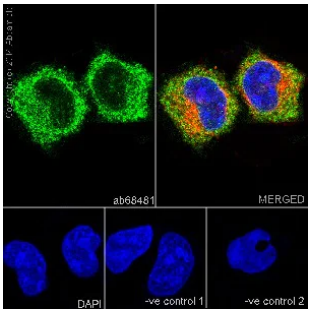
Immunohistochemical analysis of paraffin-embedded Human tonsil labeling IRF3 with ab68481at 1/500 dilution, followed by prediluted HRP Polymer for Rabbit/Mouse IgG. The negative control utilised PBS instead of primary antibody. Counter stained with Hematoxylin.
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-IRF3 antibody [EPR2418Y] (ab68481)

IRF3 Flow Cytometry (Intracellular) staining using rabbit Anti-IRF3 antibody

Intracellular Flow Cytometry analysis of 2% paraformaldehyde fixed U937 (Human histiocytic lymphoma cells)cells labeling IRF3 with ab68481 at 1/160 dilution (red line). Secondary antibody used is a goat anti rabbit IgG (FITC) at 1/150 dilution. The isotype control is rabbit monoclonal IgG (black line). The unlabeled control is cells without incubation with primary and secondary antibodies (blue line).

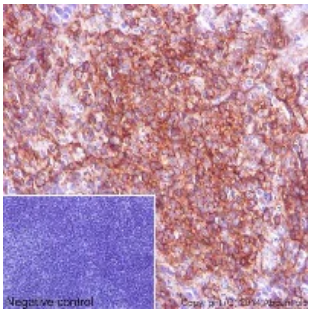


Immunocytochemistry/ Immunofluorescence - Anti-IRF3 antibody [EPR2418Y] (ab68481)

IRF3 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-IRF3 antibody

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling IRF3 with ab68481 at 1/100 dilution. Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) at 1/400 dilution was used as the

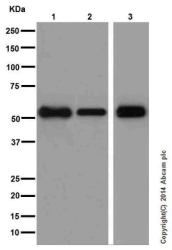
secondary antibody (green). The confocal image shows cytoplasmic on HeLa cells. The nuclear counter stain is DAPI (blue). Tubulin is detected with ab7291 (anti-Tubulin mouse mAb) at 1/500 and ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red).
The negative controls are as follows;
1. ab68481 at 1/100 dilution followed by ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.
2. ab7291 (anti-Tubulin mouse mAb) at 1/500 dilution followed by ab150077 (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/400 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRF3 antibody [EPR2418Y] (ab68481)

IRF3 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-IRF3 antibody

Immunohistochemical analysis of paraffin-embedded Mouse spleen labeling IRF3 with ab68481at 1/500 dilution, followed by prediluted HRP Polymer for Rabbit/Mouse IgG. The negative control utilised PBS instead of primary antibody. Counter stained with Hematoxylin.
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-IRF3 antibody [EPR2418Y] (ab68481)

Blocking and Dilution buffer: 5% NFDM/TBST
All lanes:
Western blot - Anti-IRF3 antibody [EPR2418Y] (ab68481) at 1/10000 dilution

Lane 1:
THP-1 (Human monocytic leukemia cells) whole cell lysates at 10 µg

Lane 2:
HepG2 (Human liver hepatocellular carcinoma) whole cell lysates at 10 µg

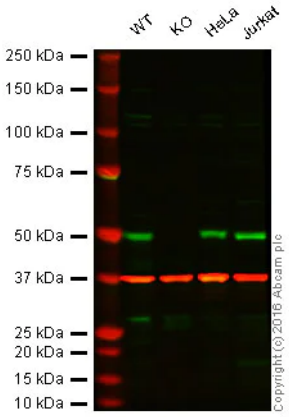
Lane 3:
Daudi (Human Burkitt's lymphoma cell line) whole cell lysates at 10 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/1000 dilution

Predicted band size: 47 kDa

Observed band size: 51 kDa



Western blot - Anti-IRF3 antibody [EPR2418Y] (ab68481)

Lanes 1 - 4: Merged signal (red and green). Green - ab68481 observed at 50 kDa. Red - loading control, ab8245, observed at 37 kDa.

ab68481 was shown to react with IRF3 in wild-type HAP1 cells along with additional cross-reactive bands. No band was observed when IRF3 knockout samples were examined. Wild-type and IRF3 knockout samples were subjected to SDS-PAGE. ab68481 and ab8245 (loading control to GAPDH) were both diluted to 1/1000 and 1/10,000 respectively and incubated overnight at 4°C. 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 1/10,000 dilution for 1 hour at room temperature before imaging.
All lanes:
Western blot - Anti-IRF3 antibody [EPR2418Y] (ab68481) at 1/1000 dilution

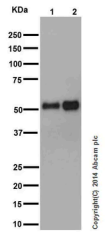
Lane 1:
Wild-type HAP1 cell lysate at 20 µg

Lane 2:
IRF3 knockout HAP1 cell lysate at 20 µg

Lane 3:
HeLa cell lysate at 20 µg

Lane 4:
Jurkat cell lysate at 20 µg

Predicted band size: 47 kDa



Western blot - Anti-IRF3 antibody [EPR2418Y] (ab68481)

Blocking and Dilution buffer: 5% NFDM/TBST
All lanes:
Western blot - Anti-IRF3 antibody [EPR2418Y] (ab68481) at 1/1000 dilution

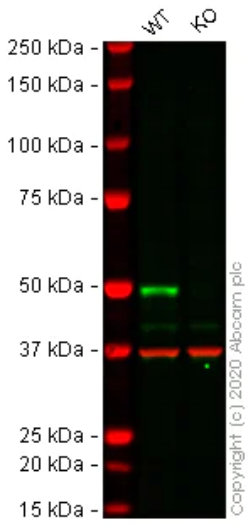
Lane 1:
Human fetal heart lysate at 10 µg

Lane 2:
Human fetal kidney lysate at 10 µg

Secondary

All lanes:
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 47 kDa



Western blot - Anti-IRF3 antibody [EPR2418Y] (ab68481)

IRF3 Western blot staining using rabbit Anti-IRF3 antibody

Lanes 1 - 2: Merged signal (red and green). Green - ab68481 observed at 50 kDa. Red - loading control ab8245 (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.
ab68481 was shown to react with IRF3 in wild-type A549 cells in western blot with loss of signal observed in IRF3 knockout cell line ab267097 (IRF3 knockout cell lysate ab256953). Wild-type and IRF3 knockout A549 cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with ab68481 and ab8245 (Mouse anti-GAPDH antibody [6C5]) 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.

All lanes:
Western blot - Anti-IRF3 antibody [EPR2418Y] (ab68481) at 1/1000 dilution

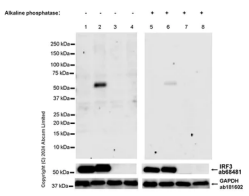
Lane 1:
Wild-type A549 cell lysate at 20 µg

Lane 2:
Western blot - Human IRF3 knockout A549 cell lysate (ab256953) at 20 µg

Performed under reducing conditions.

Predicted band size: 47 kDa

Observed band size: 50 kDa



Western blot - Anti-IRF3 antibody [EPR2418Y] (ab68481)

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

In Western blot, ab320082 was shown to bind specifically to IRF3. Target of interest was observed at 60 kDa in wild-type Hela cell lysates (lane 2) with no signal observed at this size in IRF3 knockout cell line (lane 4) (lane 4, knockout cell line ab255345 / knockout cell lysate ab263784).

Lysates were freshly made and used for Western blotting immediately to minimize protein degradation.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

In Western blot, Anti-IRF3 antibody [EPR2418Y] (ab68481) staining at 1/1000 dilution.

All lanes:
Western blot - Anti-IRF3 (phospho S396) antibody [EPR28686-189] (ab320082) at 1/1000 dilution

Lane 1:
Untreated wild-typeHeLa (human cervical adenocarcinoma epithelial cell) whole cell lysate (untreated membrane) at 60 µg

Lane 2:
Wild-type HeLa treated first with 80nM TPA for 24h, then change fresh medium, transfect 10ug/ml poly(dA:dT) for 2h whole cell lysate (untreated membrane) at 60 µg

Lane 3:
Untreated IRF3 knockout HeLa whole cell lysate (untreated membrane) at 60 µg

Lane 4:
IRF3 knockout HeLa treated first with 80nM TPA for 24h, then change fresh medium, transfect 10ug/ml poly(dA:dT) for 2h whole cell lysate (untreated membrane) at 60 µg

Lane 5:
Untreated wild-typeHeLa whole cell lysate (alkaline phosphatase treated membrane) at 60 µg

Lane 6:
Wild-type HeLa treated first with 80nM TPA for 24h, then change fresh medium, transfect 10ug/ml poly(dA:dT) for 2h whole cell lysate (alkaline phosphatase treated membrane) at 60 µg

Lane 7:
Untreated IRF3 knockout HeLa whole cell lysate (alkaline phosphatase treated membrane) at 60 µg

Lane 8:
IRF3 knockout HeLa treated first with 80nM TPA for 24h, then change fresh medium, transfect 10ug/ml poly(dA:dT) for 2h whole cell lysate (alkaline phosphatase treated membrane) at 60 µg

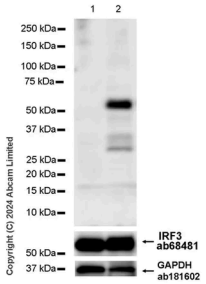
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Performed under reducing conditions.

Observed band size: 60 kDa, 36 kDa

Exposure time: 92s



Western blot - Anti-IRF3 antibody [EPR2418Y] (ab68481)

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

The identity of the bands between 25 kDa and 35 kDa are unknown.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

In Western blot, Anti-IRF3 antibody [EPR2418Y] (ab68481) staining at 1/1000 dilution.

All lanes:
Western blot - Anti-IRF3 (phospho S396) antibody [EPR28686-189] (ab320082) at 1/1000 dilution

Lane 1:
Untreated THP-1 (human monocytic leukemia monocyte) whole cell lysate at 60 µg

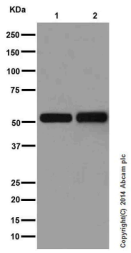
Lane 2:
THP-1 treated first with 80nM TPA for 24h, then change fresh medium, transfect 10ug/ml poly(dA:dT) for 2h whole cell lysate at 60 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 60 kDa, 36 kDa

Exposure time: 48s



Western blot - Anti-IRF3 antibody [EPR2418Y] (ab68481)

IRF3 Western blot staining using rabbit Anti-IRF3 antibody

Blocking and Dilution buffer: 5% NFDM/TBST
All lanes:
Western blot - Anti-IRF3 antibody [EPR2418Y] (ab68481) at 1/10000 dilution

Lane 1:
HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysates at 20 µg

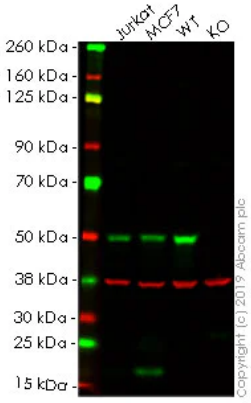
Lane 2:
Jurkat (Human T cell leukemia cells from peripheral blood) whole cell lysates at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/1000 dilution

Predicted band size: 47 kDa

Observed band size: 51 kDa



Western blot - Anti-IRF3 antibody [EPR2418Y] (ab68481)

IRF3 Western blot staining using rabbit Anti-IRF3 antibody

Lanes 1 - 4: Merged signal (red and green). Green - ab68481 observed at 50 kDa. Red - loading control, ab8245 observed at 37 kDa.
ab68481 was shown to react with IRF3 in wild-type HeLa cells. Loss of signal was observed when knockout cell line ab255345 (knockout cell lysate ab263784) was used. Wild-type and IRF3 knockout samples were subjected to SDS-PAGE. ab68481 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.

All lanes:
Western blot - Anti-IRF3 antibody [EPR2418Y] (ab68481) at 1/1000 dilution

Lane 1:
Jurkat cell lysate at 20 µg

Lane 2:
MCF7 cell lysate at 20 µg

Lane 2:
Western blot - Human IRF3 knockout HeLa cell line (ab255345)

Lane 3:
Wild-type HeLa cell lysate at 20 µg

Lane 4:
IRF3 knockout HeLa cell lysate at 20 µg

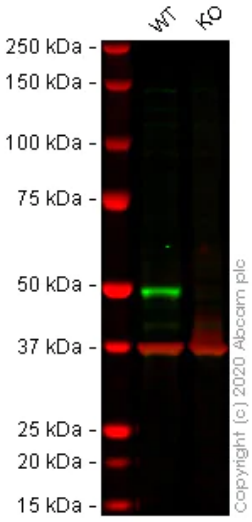
Secondary

All lanes:
Western blot - Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) at 1/20000 dilution

Performed under reducing conditions.

Predicted band size: 47 kDa

Observed band size: 37 kDa, 51 kDa



Western blot - Anti-IRF3 antibody [EPR2418Y] (ab68481)

IRF3 Western blot staining using rabbit Anti-IRF3 antibody

Lanes 1 - 2: Merged signal (red and green). Green - ab68481 observed at 50 kDa. Red - loading control ab8245 (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.
ab68481 was shown to react with IRF3 in wild-type A549 cells in western blot with loss of signal observed in IRF3 knockout cell line ab267098 (IRF3 knockout cell lysate ab256954). Wild-type and IRF3 knockout A549 cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with ab68481 and ab8245 (Mouse anti-GAPDH antibody [6C5]) 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.

All lanes:
Western blot - Anti-IRF3 antibody [EPR2418Y] (ab68481) at 1/1000 dilution

Lane 1:
Wild-type A549 cell lysate at 20 µg

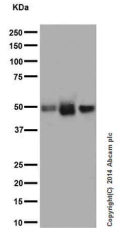
Lane 2:
IRF3 knockout A549 cell lysate at 20 µg

Lane 2:
Western blot - Human IRF3 knockout A549 cell line (ab267098)

Performed under reducing conditions.

Predicted band size: 47 kDa

Observed band size: 50 kDa



Western blot - Anti-IRF3 antibody [EPR2418Y] (ab68481)

Blocking and Dilution buffer: 5% NFDM/TBST

The slightly smaller molecular mass observed in mouse than in human is supported by literature.

All lanes:
Western blot - Anti-IRF3 antibody [EPR2418Y] (ab68481) at 1/1000 dilution

Lane 1:
Mouse heart lysate at 10 µg

Lane 2:
Mouse spleen lysate at 10 µg

Lane 3:
NIH/3T3 (Mouse embryo fibroblast cells) whole cell lysates at 10 µg

Secondary

All lanes:
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 47 kDa

Observed band size: 47 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.