

Product datasheet for **AM05643PU-S**

IRF3 (108-166) Mouse Monoclonal Antibody [Clone ID: 3F10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3F10
Applications:	ELISA, FC, IF, WB
Recommended Dilution:	ELISA. Western blot (1:1000 - 1:2000), recommended starting dilution is 1:1000. Flow Cytometry. Immunofluorescence.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human IRF3 (108-166 aa) purified from E.coli
Specificity:	The antibody recognizes human interferon regulatory factor 3 (IRF3), a 55 kDa constitutively expressed member of the IRF family. Other species not tested.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-G affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	interferon regulatory factor 3
Database Link:	Entrez Gene 3661 Human Q14653



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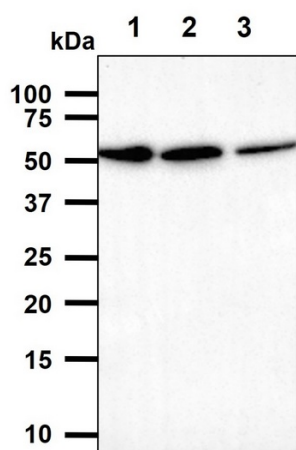
Background:

Members of the Interferon regulatory factor (IRF) family regulate gene expression critical to immune response, hemopoiesis, and proliferation. IRF-3 is distinct from other family members. Its transcriptional activity is regulated solely by posttranslational modifications. It plays a crucial role in activation of innate immunity and inflammation in response to viral infection.

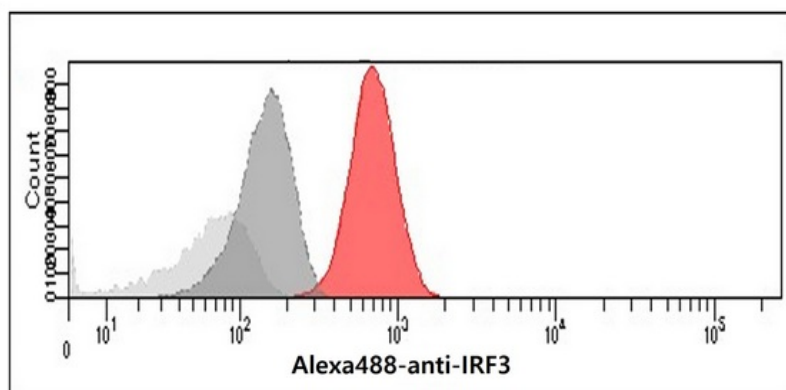
IRF3 accumulates in an inactive form in the cytoplasm and then translocates to the nucleus as a homodimer, following stimuli-induced phosphorylation of specific serine/threonine residues. Association of the homodimer with p300/CBP (CREBB binding protein) forms dsRNA-activated factor 1 (DRAF1), which then activates the transcription of interferon alpha and beta, along with other interferon-induced genes.

Synonyms:

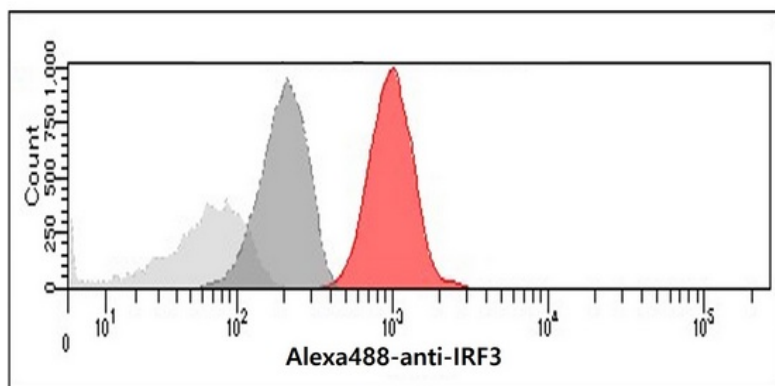
Interferon regulatory factor 3, IRF-3

Product images:


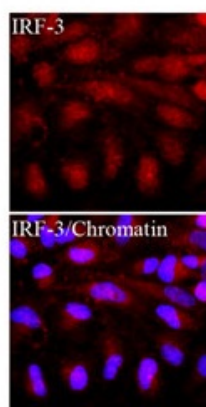
The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human IRF3 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: MCF7 cell lysate Lane 2.: K562 cell lysate Lane 3.: Jurkat cell lysate



Flow cytometry analysis of IRF3 in MCF7 cells. The cell was stained with AM05643PU-S at 2-5ug for 1x10⁶ cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).



Flow cytometry analysis of IRF3 in Jurkat cells. The cell was stained with AM05643PU-S at 2-5ug for 1×10^6 cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).



ICC/IF analysis of human HeLa cells stained with IRF3 (1:500) with Texas-Red and Hoechst 33342 (Blue) for nucleus staining.