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IRF5 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2828A

Specification

IRF5 Antibody (N-term) - Product Information

Application	**IF, WB, FC,E**
Primary Accession	Q13568
Other Accession	Q58DJ0
Reactivity	**Human**
Predicted	**Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**56044**
Antigen Region	**81-108**

IRF5 Antibody (N-term) - Additional Information

Gene ID 3663

Other Names
Interferon regulatory factor 5, IRF-5, IRF5

Target/Specificity
This IRF5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 81-108 amino acids from the N-terminal region of human IRF5.

Dilution
IF~~1:10~50
WB~~1:1000
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
IRF5 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

IRF5 Antibody (N-term) - Protein Information

Name IRF5 {ECO:0000303|PubMed:11303025, ECO:0000312|HGNC:HGNC:6120}

Function Transcription factor that plays a critical role in innate immunity by activating expression of type I interferon (IFN) IFNA and INFB and inflammatory cytokines downstream of endolysosomal toll-like receptors TLR7, TLR8 and TLR9 (PubMed:11303025, PubMed:15695821, PubMed:22412986, PubMed:25326418, PubMed:32433612). 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 (By similarity). Can efficiently activate both the IFN-beta (IFNB) and the IFN-alpha (IFNA) genes and mediate their induction downstream of the TLR-activated, MyD88- dependent pathway (By similarity). Key transcription factor regulating the IFN response during SARS-CoV-2 infection (PubMed:33440148).

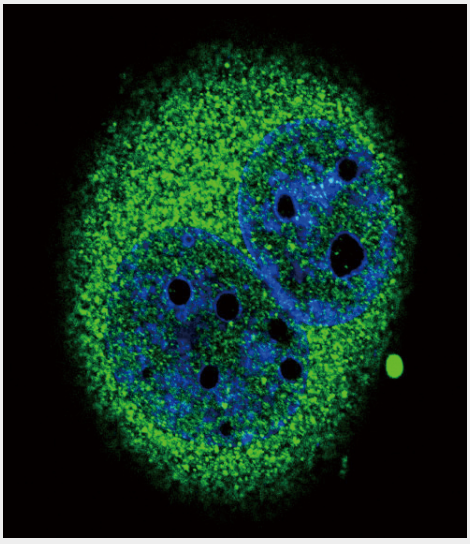
Cellular Location
Cytoplasm. Nucleus. Note=Shuttles between the nucleus and the cytoplasm: upon activation by the TLR adapter MYD88 and subsequent phosphorylation, translocates to the nucleus

IRF5 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

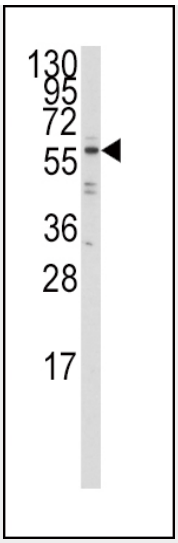
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

IRF5 Antibody (N-term) - Images

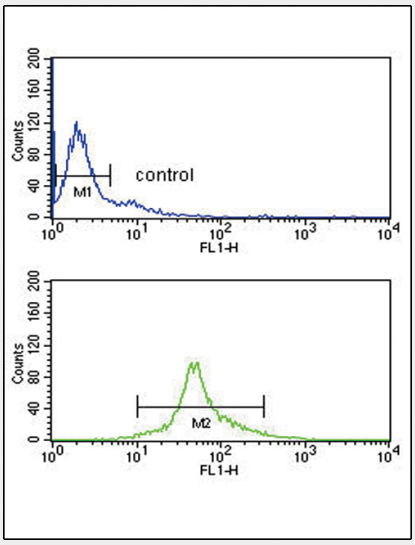


Confocal immunofluorescent analysis of IRF5 Antibody (N-term) (Cat. #AP2828a) with A549 cell followed by Alexa Fluor?489-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).

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Western blot analysis of anti-IRF5 Antibody (N-term) (Cat.#AP2828a) in Ramos cell line lysates (35ug/lane). IRF5 (arrow) was detected using the purified Pab.



IRF5 Antibody (N-term) (Cat. #AP2828a) flow cytometry analysis of Ramos cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

IRF5 Antibody (N-term) - Background

IRF5 is a member of the interferon regulatory factor (IRF) family, a group of transcription factors with diverse roles, including virus-mediated activation of interferon, and modulation of cell growth, differentiation, apoptosis, and immune system activity. Members of the IRF family are characterized by a conserved N-terminal DNA-binding domain containing tryptophan (W) repeats.

IRF5 Antibody (N-term) - References

Nordmark,G., Genes Immun. 10 (1), 68-76 (2009)
Kim,Y.J., J. Rheumatol. 35 (11), 2106-2118 (2008)