

Goat Anti-IRF5 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1571a

Specification

Goat Anti-IRF5 Antibody - Product Information

Application	WB
Primary Accession	Q13568
Other Accession	NP_001092099 , 3663
Reactivity	Human
Predicted	Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	56044

Goat Anti-IRF5 Antibody - Additional Information

Gene ID 3663

Other Names

Interferon regulatory factor 5, IRF-5, IRF5

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-IRF5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-IRF5 Antibody - 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](http://www.uniprot.org/citations/11303025) target="_blank">11303025, PubMed: [15695821](http://www.uniprot.org/citations/15695821) target="_blank">15695821, PubMed: [22412986](http://www.uniprot.org/citations/22412986) target="_blank">22412986, PubMed: [25326418](http://www.uniprot.org/citations/25326418) target="_blank">25326418)

target="_blank">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

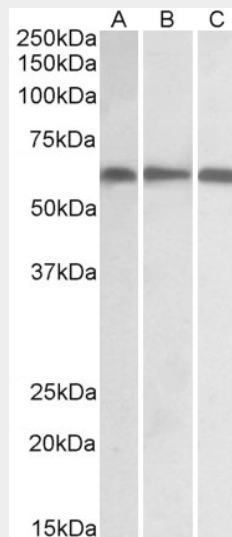
Cytoplasm. Nucleus. Note=Shuttles between the nucleus and the cytoplasm: upon activation by the TLR adapter MYD88 and subsequent phosphorylation, translocates to the nucleus

Goat Anti-IRF5 Antibody - Protocols

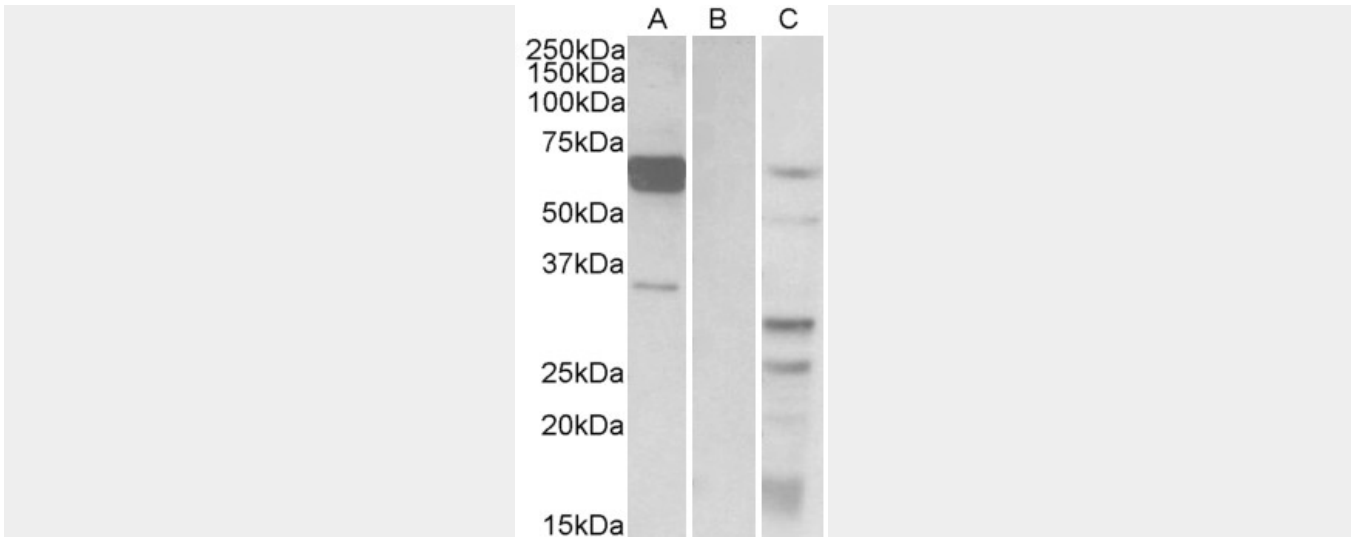
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-IRF5 Antibody - Images



Antibody staining (1µg/ml) of A549 (A), Human Spleen (B) and Peripheral Blood Lymphocytes (C) lysates (RIPA buffer, 30µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence



Antibody staining (1 μ g/ml) of A549 (A), Human Spleen (B) and Peripheral Blood Lymphocytes (C) lysates (RIPA buffer, 30 μ g total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence

Goat Anti-IRF5 Antibody - Background

This gene encodes 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. Multiple transcript variants encoding different isoforms have been found for this gene, and a 30-nt indel polymorphism (SNP rs60344245) can result in loss of a 10-aa segment.

Goat Anti-IRF5 Antibody - References

Genome-wide meta-analyses identify three loci associated with primary biliary cirrhosis. Liu X, et al. *Nat Genet*, 2010 Aug. PMID 20639880.
 Variants at IRF5-TNPO3, 17q12-21 and MMEL1 are associated with primary biliary cirrhosis. Hirschfield GM, et al. *Nat Genet*, 2010 Aug. PMID 20639879.
 Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. *Diabetes Care*, 2010 Jul 13. PMID 20628086.
 Genetic Differences between Five European Populations. Moskvina V, et al. *Hum Hered*, 2010 Jul 8. PMID 20616560.
 Dengue hemorrhagic fever is associated with polymorphisms in JAK1. Silva LK, et al. *Eur J Hum Genet*, 2010 Jun 30. PMID 20588308.