

Summary

Production Name	IRF3 (18Y4) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Purification	Affinity purification

Immunogen

Gene Name	IRF3 {ECO:0000303 PubMed:9803267, ECO:0000312 HGNC:HGNC:6118}
Alternative Names	IRF3; IRF-3; IRF3; Interferon regulatory factor 3;
Gene ID	3661.0
SwissProt ID	Q14653.A synthetic peptide of human IRF3

Application

Dilution Ratio	WB: 1:1000
Molecular Weight	47kDa

Background

IRFs comprise a family of transcription factors that function within the Jak/Stat pathway to regulate interferon (IFN) and

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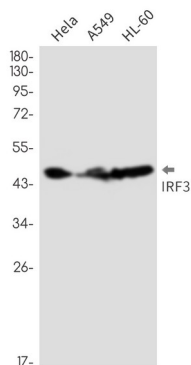
IFN-inducible gene expression in response to viral infection. IRF-3 can inhibit cell growth and plays a critical role in controlling the expression of genes in the innate immune response. Key transcriptional regulator of type I interferon (IFN)-dependent immune responses which plays a critical role in the innate immune response against DNA and RNA viruses (PubMed: [22394562](http://www.uniprot.org/citations/22394562), PubMed: [25636800](http://www.uniprot.org/citations/25636800), PubMed: [27302953](http://www.uniprot.org/citations/27302953)). 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](http://www.uniprot.org/citations/11846977), PubMed: [16846591](http://www.uniprot.org/citations/16846591), PubMed: [16979567](http://www.uniprot.org/citations/16979567), PubMed: [20049431](http://www.uniprot.org/citations/20049431), PubMed: [32972995](http://www.uniprot.org/citations/32972995)). 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](http://www.uniprot.org/citations/16846591), PubMed: [16979567](http://www.uniprot.org/citations/16979567), PubMed: [20049431](http://www.uniprot.org/citations/20049431)). 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](http://www.uniprot.org/citations/22394562), PubMed: [25636800](http://www.uniprot.org/citations/25636800), PubMed: [27302953](http://www.uniprot.org/citations/27302953)). 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](http://www.uniprot.org/citations/16154084), PubMed: [27302953](http://www.uniprot.org/citations/27302953), PubMed: [33440148](http://www.uniprot.org/citations/33440148)). Can activate distinct gene expression programs in macrophages and can induce significant apoptosis in primary macrophages (PubMed: [16846591](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/25609812)). Key transcription factor regulating the IFN response during SARS-CoV-2 infection (PubMed: [33440148](http://www.uniprot.org/citations/33440148)).

Research Area

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Image Data



Western blot detection of IRF3 in HeLa,A549,HL-60 cell lysates using IRF3 antibody(1:1000 diluted).

Note

For research use only.