

For Research Use Only

IRF3 Monoclonal antibody

Catalog Number: 66670-1-Ig **8 Publications**



Basic Information

Catalog Number: 66670-1-Ig	GenBank Accession Number: BC009395	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 3661	CloneNo.: 1E6G8
Source: Mouse	UNIPROT ID: Q14653	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:250-1:1000
Isotype: IgG1	Full Name: interferon regulatory factor 3	
Immunogen Catalog Number: AG27223	Calculated MW: 47 kDa	
	Observed MW: 50-60 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB, IF	WB : HeLa cells, HepG2 cells, MOLT-4 cells, Jurkat cells, THP-1 cells, Daudi cells
Species Specificity: Human	IHC : human spleen tissue, human tonsillitis tissue
Cited Species: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

The virul-induced expression of interferon(IFN) genes in infected cells implicate in the interplay of several constitutively expressed and virus-activated transcription factors. A family of IFN regulatory factors(IRFs) have been shown to has a role in the transcription of IFN genes as well as IFN-stimulated genes. IRF3 is a novel key transcriptional regulator of type I IFN-dependent immune responses and involves in the innate immune response against DNA and RNA viruses, by binding to the promoters of IFN. It located in the cytoplasm of uninfected cells in an inactive form, and following viral infection, double-stranded RNA (dsRNA), or toll-like receptor (TLR) signaling, could be phosphorylated by IKKε and TBK1 kinases. This induces a conformational change, leading to its dimerization, 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Kul Raj Rai	36321836	mBio	WB
Zhihai Zhou	33692778	Front Immunol	WB,IF
Shujuan Xu	34922148	Vet Microbiol	WB

Storage

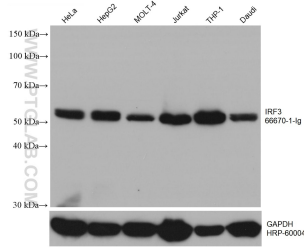
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

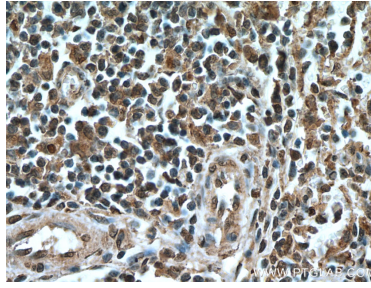
For technical support and original validation data for this product please contact:
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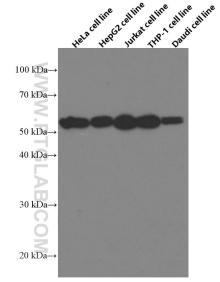
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66670-1-Ig (IRF3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunohistochemical analysis of paraffin-embedded human spleen tissue slide using 66670-1-Ig (IRF3 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 66670-1-Ig (IRF3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.