

# IRF3 Monoclonal antibody

Catalog Number: 66670-1-Ig **23 Publications**

## Basic Information

<b>Catalog Number:</b> 66670-1-Ig	<b>GenBank Accession Number:</b> BC009395	<b>Purification Method:</b> Protein G purification
<b>Source:</b> Mouse	<b>GeneID (NCBI):</b> 3661	<b>CloneNo.:</b> 1E6G8
<b>Isotype:</b> IgG1	<b>UNIPROT ID:</b> Q14653	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IHC: 1:250-1:1000
<b>Immunogen Catalog Number:</b> AG27223	<b>Full Name:</b> interferon regulatory factor 3	
	<b>Calculated MW:</b> 47 kDa	
	<b>Observed MW:</b> 50-60 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IHC, IF, ColP	<b>WB :</b> HeLa cells, A431 cells, THP-1 cells, MOLT-4 cells, HepG2 cells, Jurkat cells, Daudi cells, Karpas-422 cells, Ramos cells
<b>Species Specificity:</b> human	<b>IHC :</b> human spleen tissue, human tonsillitis tissue
<b>Cited Species:</b> human, mouse, pig	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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 IKBKE 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 (DRAAF1), a complex which activates the transcription of the type I IFN and ISG genes.

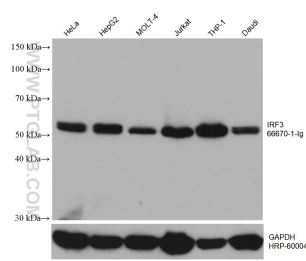
## Notable Publications

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

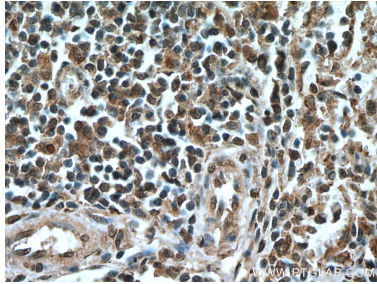
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

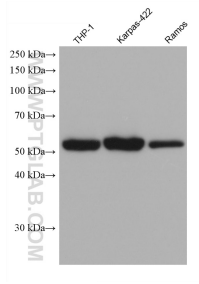
Selected Validation Data



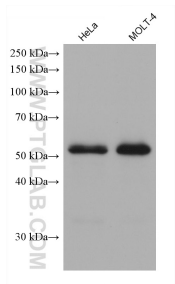
Various lysates were subjected to SDS PAGE followed by western blot with 66670-1-Ig (IRF3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



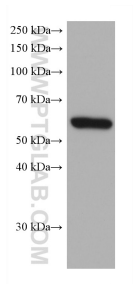
Immunohistochemical analysis of paraffin-embedded human spleen tissue slide using 66670-1-Ig (IRF3 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 66670-1-Ig (IRF3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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.



A431 cells 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.