

Basic Information

Product Name	Anti-IRF3 Antibody	
Gene Name	Irf3	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	mouse	
Tested Application	WB, IHC, ICC/IF, FCM, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.	
Immunogen	E.coli-derived mouse IRF3 recombinant protein (Position: M1-I419).	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	50-55 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-400
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-400
	Flow Cytometry (Fixed):	1:50-200
	Enzyme linked immunosorbent assay (ELISA):	1:100-1000
	(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

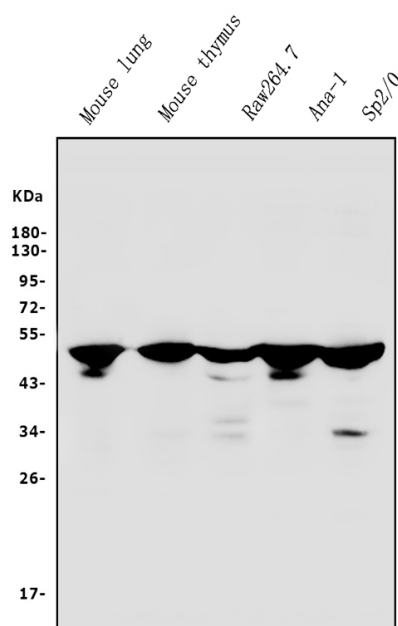
IRF3(interferon regulatory factor 3) is a member of the interferon regulatory transcription factor (IRF) family. The IRF3 gene is mapped on 19q13.33. IRF3 is found in an inactive cytoplasmic form that upon serine/threonine phosphorylation forms a complex with CREBBP. IRF3 plays an important role in the innate immune system's response to viral infection. Aggregated MAVS have been found to activate IRF3 dimerization. Although IRF3 increased transcriptional activity from an ISRE-containing promoter, expression of IRF3 as a Gal4 fusion protein did not activate expression of a chloramphenicol acetyltransferase (CAT) reporter gene containing repeats of the Gal4-binding sites. Translocation of

IRF3 was accompanied by an increase in serine and threonine phosphorylation. The transcriptional activators CREBBP and EP300 coimmunoprecipitated with IRF3 only subsequent to viral infection, and the authors stated that these are also subunits of DRAF1.

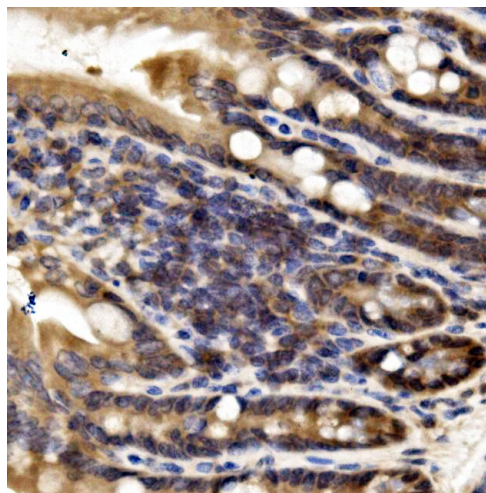
Reference

Anti-IRF3 Antibody被引用在1文献中。

Selected Validation Data

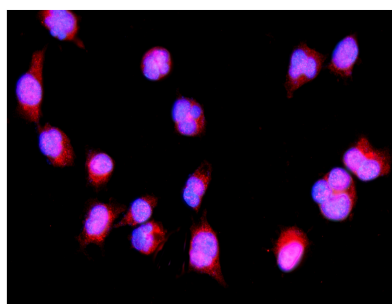


Western blot analysis of IRF3 using anti-IRF3 antibody (A00165-5). The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: Mouse lung tissue lysates, Lane 2: Mouse thymus tissue lysates, Lane 3: Mouse RAW264.7 whole cell lysates, Lane 4: Mouse Ana-1 whole cell lysates, Lane 5: Mouse SP2/0 whole cell lysates. After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-IRF3 antigen affinity purified polyclonal antibody (A00165-5) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for IRF3 at approximately 50-55 kDa. The expected band size for IRF3 is at 47 kDa.



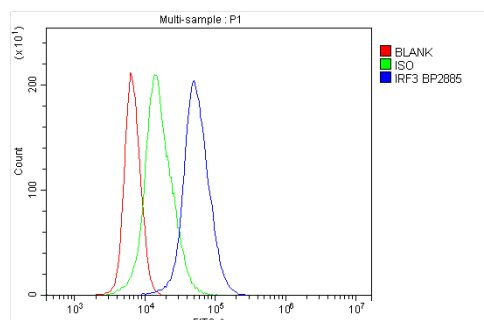
IHC analysis of IRF3 using anti-IRF3 antibody (A00165-5).

IRF3 was detected in a paraffin-embedded section of mouse intestine tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-IRF3 Antibody (A00165-5) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



ICC/IF analysis of IRF3 using anti-IRF3 antibody (A00165-5).

IRF3 was detected in an immunocytochemical section of Hepa1-6 cells. The section was incubated with rabbit anti-IRF3 Antibody (A00165-5) at a dilution of 1:100. Fluoro550-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog#BA1135) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of mouse spleen tissue using anti-IRF3 antibody (A00165-5).

Overlay histogram showing mouse spleen tissue stained with A00165-5 (Blue line). To facilitate intracellular staining, tissue was fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The tissue was blocked with 10% normal goat serum. And then incubated with rabbit anti-IRF3 Antibody (A00165-5) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.