

Basic Information

Product Name	Anti-IRF3 Antibody (Clone#OTI4D4)	
Gene Name	IRF3	
Source	Mouse	
Clonality	Monoclonal	
Isotype	IgG2a	
Species Reactivity	human	
Tested Application	WB, IHC, ICC/IF, FCM	
Contents	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.	
Immunogen	Full length human recombinant protein of human IRF3 (NP_001562) produced in HEK293T cell.	
Concentration	500 ug/ml	
Purification	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)	
Observed MW	47 kDa	
Dilution Ratios	Western blot (WB):	1:1000~2000
	Immunohistochemistry (IHC):	1:50
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:100
	Flow cytometry (FCM):	1:100

Storage

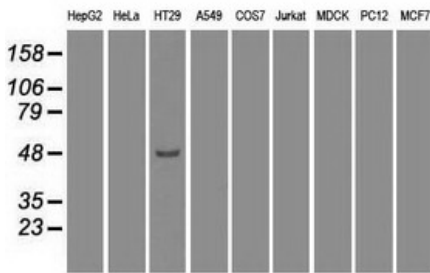
Stable for 12 months from date of receipt. Store at -20°C as received.

Background Information

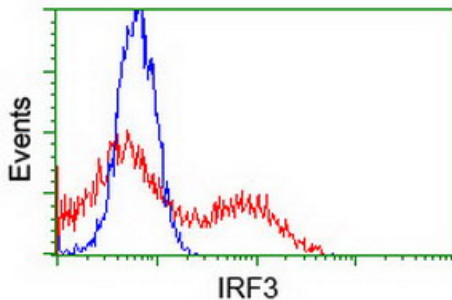
IRF3(interferon regulatory factor 3) is a member of the interferon regulatory transcription factor(IRF) family. The IRF3 gene is mapped on 19q13.33. IRF3 is found in an inactive cytoplasmic form that upon serine/threonine phosphorylation forms a complex with CREBBP. IRF3 plays an important role in the 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.

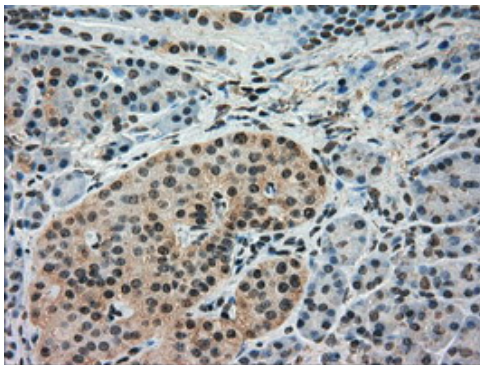
Selected Validation Data



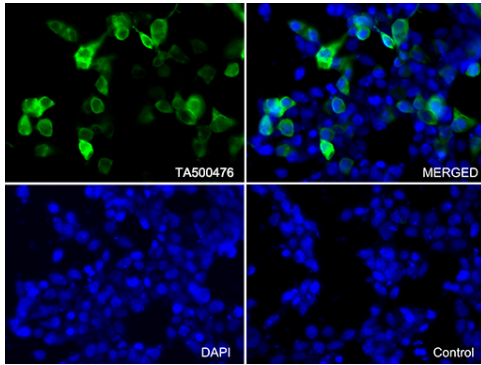
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-IRF3 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



HEK293T cells transfected with either overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-IRF3 antibody, and then analyzed by flow cytometry.



Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-IRF3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, MA00165-1)



Immunofluorescent staining of 293T cells transfected by pCMV6-ENTRY IRF3 using anti-IRF3 antibody. 293T cells transfected with empty vector served as a negative control (MERGED, lower right) (1:100).