Anti-IRF3 Antibody (Clone#11H2)

Catalog Number: ***M00165-2***

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BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-IRF3 Antibody (Clone#11H2)
Gene Name	Irf3
Source	Mouse
Clonality	Monoclonal
Isotype	IgG1
Species Reactivity	mouse, rat
Tested Application	WB, ICC/IF, FCM
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). Human IRF3 shares 71.1% and 88.5% amino acid (aa) sequence identity with human and rat IRF3, respectively.
Concentration	500 ug/ml
Purification	protein G purified.
Observed MW	50-55 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-400 Flow Cytometry (Fixed): 1:50-200

Storage

12 months from date of receipt，-20℃ 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

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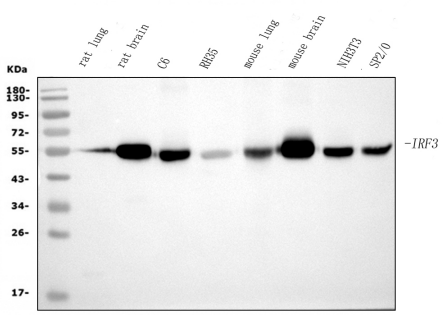
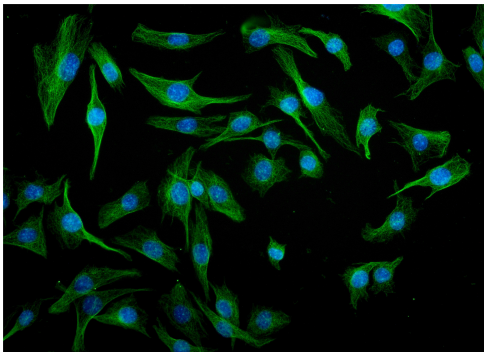
also subunits of DRAF1.

Selected Validation Data



Western blot analysis of IRF3 using anti-IRF3 antibody (M00165-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: rat lung tissue lysates,
Lane 2: rat brain tissue lysates,
Lane 3: rat C6 whole cell lysates,
Lane 4: rat RH-35 whole cell lysates,
Lane 5: mouse lung tissue lysates,
Lane 6: mouse brain tissue lysates,
Lane 7: mouse NIH/3T3 whole cell lysates,
Lane 8: mouse SP2/0 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-IRF3 antigen affinity purified monoclonal antibody (M00165-2) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). 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.



ICC/IF analysis of IRF3 using anti-IRF3 antibody (M00165-2).
IRF3 was detected in an immunocytochemical section of RM-1 cells. The section was incubated with mouse anti-IRF3 Antibody (M00165-2) at a dilution of 1:100. Fluoro488-conjugated Anti-mouse IgG Secondary Antibody (green)(Catalog#BA1126) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).

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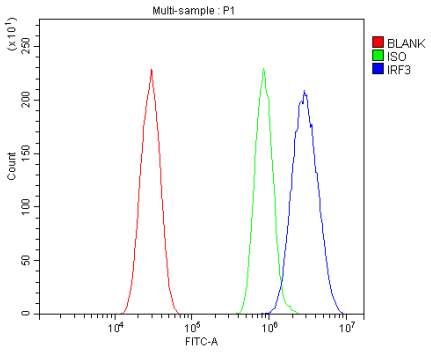

Flow Cytometry analysis of Hepa1-6 cells using anti-IRF3 antibody (M00165-2).
Overlay histogram showing Hepa1-6 cells stained with M00165-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-IRF3 Antibody (M00165-2) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse 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.