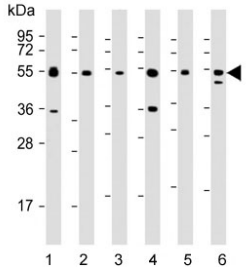
IRF3 Antibody [clone 1522CT766.58.24] (F54481)

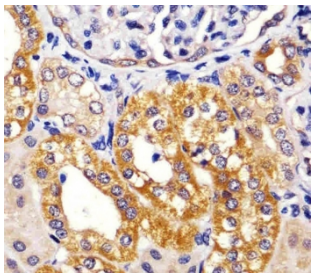
Catalog No.	Formulation	Size
F54481-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F54481-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

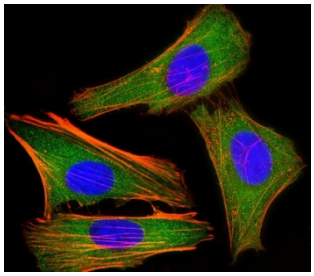
Availability	1-3 business days
Species Reactivity	Human, Monkey
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	IgG1,k
Clone Name	1522CT766.58.24
Purity	Protein G affinity
UniProt	Q14653
Localization	Cytoplasmic, nuclear
Applications	Western Blot : 1:500-1:2000 Immunohistochemistry (FFPE) : 1:25 Flow Cytometry : 1:25 (1x10e6 cells) Immunofluorescence : 1:25
Limitations	This IRF3 antibody is available for research use only.



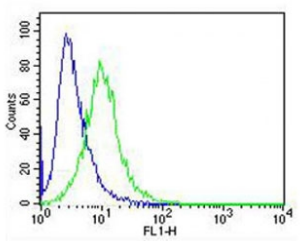
Western blot testing of 1) monkey COS-7 and human 2) Daudi, 3) HepG2, 4) HT-29, 5) Jurkat and 6) MCF7 cell lysate with IRF3 antibody. Predicted molecular weight ~47 kDa.



IRF3 Antibody Kidney IHC. Immunohistochemistry testing of FFPE human kidney tissue with IRF3 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IRF3 Antibody HeLa IF. Immunofluorescent staining of fixed and permeabilized human HeLa cells with IRF3 antibody (green), DAPI nuclear stain (blue) and anti-Actin (red).



IRF3 Antibody Jurkat FACS. Flow cytometry testing of fixed and permeabilized human Jurkat cells with IRF3 antibody; Blue=isotype control, Green= IRF3 antibody.

Description

IRF3 Antibody detects Interferon regulatory factor 3, a key transcriptional regulator of type I interferon (IFN)-dependent immune responses which plays a critical role in the innate immune response against DNA and RNA viruses. Regulates the transcription of type I IFN genes (IFN-alpha and IFN-beta) and IFN-stimulated genes (ISG) by binding to an interferon-stimulated response element (ISRE) in their promoters. Acts as a more potent activator of the IFN-beta (IFNB) gene than the IFN-alpha (IFNA) gene and plays a critical role in both the early and late phases of the IFNA/B gene induction. Found in an inactive form in the cytoplasm of uninfected cells and following viral infection, double-stranded RNA (dsRNA), or toll-like receptor (TLR) signaling, is phosphorylated by IKBKE and TBK1 kinases. This induces a conformational change, leading to its dimerization and 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. Can activate distinct gene expression programs in macrophages and can induce significant apoptosis in primary macrophages.

For broader characterization of IRF3-associated innate immune signaling and interferon regulatory pathways, see our IRF3 Antibody / Innate Immune Signaling Antibody page featuring clone PCRP-IRF3-6C8 with WB, IF, FACS, and HuProt(TM) microarray specificity validation data.

Application Notes

The stated application concentrations are suggested starting points. Titration of the IRF3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Recombinant human protein was used as the immunogen for the IRF3 antibody.

Storage

Aliquot the IRF3 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.