

IRF3 Recombinant Rabbit Monoclonal Antibody (3H32L10)

Product Details

Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	3H32L10
Conjugate	Unconjugated
Immunogen	Protein corresponding to human IRF3 [aa1-aa427]
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2784599

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500	1 Publication
Immunocytochemistry (ICC/IF)	1:100	2 Publications

Product Specific Information

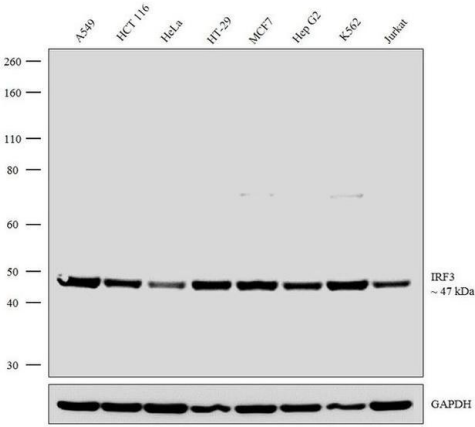
This antibody is predicted to react with Monkey, Cat, Pig.

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

Product Images For IRF3 Recombinant Rabbit Monoclonal Antibody (3H32L10)

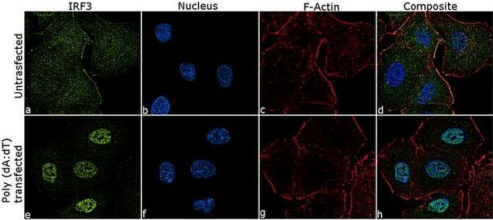
IRF3 Antibody (703682) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of A549 (Lane 1), HCT 116 (Lane 2), HeLa (Lane 3), HT-29 (Lane 4), MCF7 (Lane 5), Hep G2 (Lane 6), K562 (Lane 7) and Jurkat (Lane 8). The blot was probed with Anti-IRF3 Recombinant Rabbit Monoclonal Antibody (Product # 703682, 1: 500 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 1:4000 dilution). A ~47 kDa band corresponding to IRF3 was observed across the cell lines tested.



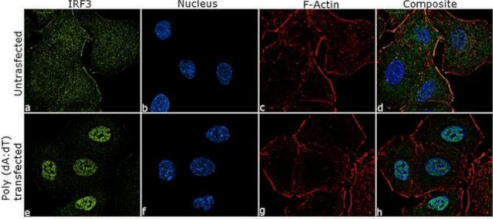
IRF3 Antibody (703682)

Detection of subcellular localization of the target protein by cell treatment demonstrates antibody specificity. Immunofluorescence analysis of IRF3 using Anti-IRF3 Recombinant Rabbit Monoclonal Antibody (Product # 703682) detects IRF3 in the nucleus of A549 cells transfected with Poly (dA:dT) in comparison to cytoplasmic localization in control cells. {TM}



IRF3 Antibody (703682) in ICC/IF

For immunofluorescence analysis, A549 cells were fixed and permeabilized for detection of endogenous IRF3 using Anti-IRF3 Recombinant Rabbit Monoclonal Antibody (Product # 703682, 1:100) and labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Nuclei (blue) were stained using ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962) and cytoskeletal F-actin (red) staining using Rhodamine Phalloidin (Product # R415, 1:300) Panel a-d) shows representative untransfected cells that were stained for detection and localization of IRF3 protein (green) with cytoplasmic signal compared to panel e-h) clearly demonstrating translocation and localisation of IRF3 in nucleus of A549 cells transfected with Poly (dA:dT) (2µg/mL, 4h). The images were captured at 60X magnification.



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Western Blot (1)

<p>Nucleic acids research</p> <p>G-quadruplex binders as cytostatic modulators of innate immune genes in cancer cells.</p> <p>"Published figure using IRF3 recombinant monoclonal antibody (Product # 703682) in Immunocytochemistry"</p> <p>Authors: Miglietta G,Russo M,Duardo RC,Capranico G</p>	<p>Year 2021</p> <p>Species Human</p>
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Immunocytochemistry (2)

<p>Nucleic acids research</p> <p>G-quadruplex binders as cytostatic modulators of innate immune genes in cancer cells.</p> <p>"Published figure using IRF3 recombinant monoclonal antibody (Product # 703682) in Immunocytochemistry"</p> <p>Authors: Miglietta G,Russo M,Duardo RC,Capranico G</p>	<p>Year 2021</p> <p>Species Human</p>
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<p>Advanced biology</p> <p>Engineering Supramolecular Organizing Centers for Optogenetic Control of Innate Immune Responses.</p> <p>"703682 was used in Immunocytochemistry-immunofluorescence to show that synthetic molecular tools will likely enable optical and user-defined modulation of innate immunity at a high spatiotemporal resolution to facilitate mechanistic studies of distinct modes of innate immune activations and potential intervention of immune disorders and cancer."</p> <p>Authors: Tan P,He L,Zhou Y</p>	<p>Year 2021</p> <p>Species Human</p>
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