

Purified anti-IRF5 Antibody

Catalog# / Size	652601 / 25 µg 652602 / 100 µg
Clone	11F4A09
Regulatory Status	RUO
Other Names	Interferon regulatory factor 5 (IRF-5)
Isotype	Mouse IgG2b, κ
Description	IRF-5 is a transcription factor belonging to the interferon regulatory factor family. It controls induction of type I IFN genes as well as inflammatory cytokines and chemokines through TLRs and the MyD88-TRAF6 pathway. Several genetic variations of IRF-5 have been reported as a risk factor of Systemic lupus erythematosus (SLE), which is caused by excess IFNα induction.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Partial human IRF-5 recombinant protein (176-240 aa).
Formulation	This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.05% sodium azide.
Concentration	0.5 mg/ml
Storage & Handling	Upon receipt, store undiluted between 2°C and 8°C.
Application	WB - Quality tested IP - Verified
Recommended Usage	Each lot of this antibody is quality control tested by Western blotting . For Western blotting, the suggested use of this reagent is 0.2 - 1.0 µg per ml. For immunoprecipitation, the suggested use of this reagent is 2-10 µg per ml. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	Internal testing suggests this clone is not suitable for intracellular flow cytometry.
RRID	AB_2561469 (BioLegend Cat. No. 652601) AB_2561470 (BioLegend Cat. No. 652602)

Antigen Details

Structure	498 aa with predicted molecular weight of 56 kD. The protein contains a DNA binding domain (IRF tryptophan pentad repeat) and a poly-Glutamate region.
Distribution	Shuttles between the nucleus and the cytoplasm.
Function	The transcription factor IRF-5 participates in the virus-mediated activation of interferon and regulates gene expression induced by cell growth, differentiation, and apoptosis.
Interaction	IKKα phosphorylates IRF-5 and induces formation of IRF-5 dimers. TRAF6 mediates K63-linked ubiquitination of IRF-5, required for nuclear translocation of IRF-5 and regulation of target genes. IRF-5 assembles with CBP/p300 to initiate transcription.
Cell Type	Dendritic cells
Biology Area	Cell Biology, Immunology, Innate Immunity, Signal Transduction, Transcription Factors

Antigen References

1. Balkhi MY, *et al.* 2010. *Cell. Signal.* 1:117.
2. Balkhi MY, *et al.* 2008. *Mol. Cell. Biol.* 28:7296.
3. Salloum R and Niewold TB. 2011. *Transl. Res.* 157:326.
4. Barnes BJ, *et al.* 2003. *J. Biol. Chem.* 278:16630.
5. Rullo OJ, *et al.* 2010. *Ann. Rheum. Dis.* 69:611.

Gene ID

[3663](#)

Related Protocols

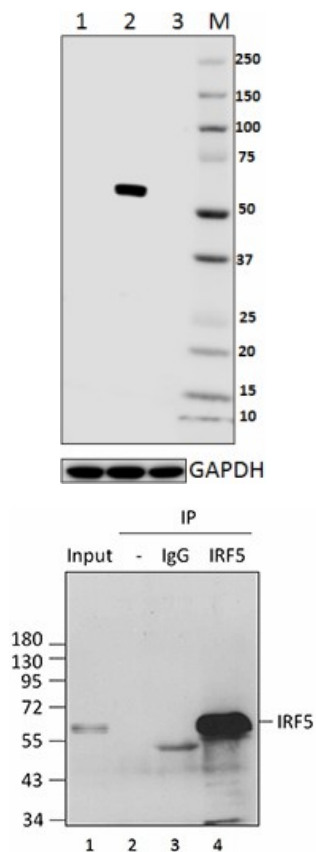
[Western Blotting Protocol](#)

[Immunoprecipitation Protocol](#)

Other Formats

Purified anti-IRF5

Product Data



Total lysates (15 μ g protein) from 293E (lane 1), THP-1 (lane 2) and Raw264.7 (lane 3) were resolved by electrophoresis (4-12% Bis-Tris gel), transferred to nitrocellulose, and probed with 1:2500 diluted (0.2 μ g/mL) purified anti-IRF5 antibody (upper). Proteins were visualized using an HRP goat anti-mouse-IgG secondary antibody (Cat. No. 405306) or HRP Donkey anti-rabbit IgG Antibody (Cat. No. 406401) for GAPDH and chemiluminescence detection. GAPDH (poly6314, Cat. No. 631401) antibody was used as a loading control (lower). Lane M: MW ladder.

Immunoprecipitation of IRF5 from THP-1 cell extracts. Lane 1 is 5% input. Immunoprecipitation was performed using protein G resins only (lane 2), mouse IgG isotype control (lane 3), and anti-IRF5 antibody (clone 11F4A09, lane 4). Western blot was performed using anti-IRF5 antibody (clone 11F4A09).

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