

IRF-5 (C-6): sc-390364



The Power to Question

BACKGROUND

Interferon regulatory factor 5 (IRF-5), belongs to the IRF family of DNA-binding factors, which includes IRF-1, IRF-2, IRF-3, IRF-4, IRF-6, IRF-7, ISGF-3 γ p48 and IFN consensus sequence-binding protein (ICSBP). The IRF family regulate both interferon and interferon-inducible genes. IRF-5, like IRF-3 and IRF-7, is a direct transducer of virus-mediated signaling and plays a role in the expression of multiple cytokines/chemokines. Although IRF-5 is a direct target of p53, its cell cycle regulatory and proapoptotic effects are p53 independent.

CHROMOSOMAL LOCATION

Genetic locus: IRF5 (human) mapping to 7q32.1; Irf5 (mouse) mapping to 6 A3.3.

SOURCE

IRF-5 (C-6) is a mouse monoclonal antibody raised against amino acids 443-498 mapping at the C-terminus of IRF-5 of human origin.

PRODUCT

Each vial contains 200 μ g IgG_{2b} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

IRF-5 (C-6) is available conjugated to agarose (sc-390364 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390364 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390364 PE), fluorescein (sc-390364 FITC), Alexa Fluor[®] 488 (sc-390364 AF488), Alexa Fluor[®] 546 (sc-390364 AF546), Alexa Fluor[®] 594 (sc-390364 AF594) or Alexa Fluor[®] 647 (sc-390364 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-390364 AF680) or Alexa Fluor[®] 790 (sc-390364 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

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STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

IRF-5 (C-6) is recommended for detection of IRF-5 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for IRF-5 siRNA (h): sc-72044, IRF-5 siRNA (m): sc-72045, IRF-5 shRNA Plasmid (h): sc-72044-SH, IRF-5 shRNA Plasmid (m): sc-72045-SH, IRF-5 shRNA (h) Lentiviral Particles: sc-72044-V and IRF-5 shRNA (m) Lentiviral Particles: sc-72045-V.

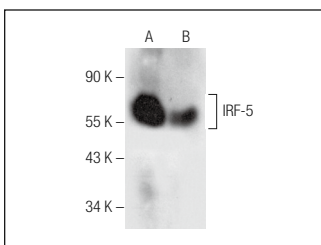
Molecular Weight of IRF-5: 60 kDa.

Positive Controls: Ramos cell lysate: sc-2216 or SR whole cell lysate.

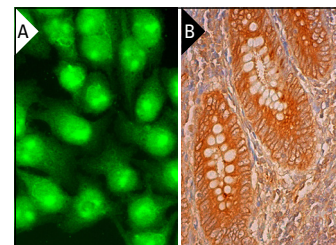
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgG κ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA



IRF-5 (C-6): sc-390364. Western blot analysis of IRF-5 expression in SR (A) and Ramos (B) whole cell lysates.



IRF-5 (C-6): sc-390364. Immunofluorescence staining of formalin-fixed HeLa cells showing cytoplasmic and nuclear localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human appendix tissue showing cytoplasmic and nuclear staining of glandular cells and lymphoid cells (B).

SELECT PRODUCT CITATIONS

- Njock, M.S., et al. 2015. Endothelial cells suppress monocyte activation through secretion of extracellular vesicles containing antiinflammatory microRNAs. *Blood* 125: 3202-3212.
- Manni, M., et al. 2018. Regulation of age-associated B cells by IRF5 in systemic autoimmunity. *Nat. Immunol.* 19: 407-419.
- Chang, C.Y., et al. 2024. NMDA receptor blockade attenuates Japanese encephalitis virus infection-induced microglia activation. *J. Neuroinflammation* 21: 291.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.