

IRF-5 (H-56): sc-98651

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.

REFERENCES

- Darnell, J.E., Jr., et al. 1994. JAK-Stat pathways and transcriptional activation in response to IFNs and other extracellular signaling proteins. *Science* 264: 1415-1421.
- Mamane, Y., et al. 1999. Interferon regulatory factors: the next generation. *Gene* 237: 1-14.
- Barnes, B.J., et al. 2001. Virus-specific activation of a novel interferon regulatory factor, IRF-5, results in the induction of distinct interferon α genes. *J. Biol. Chem.* 276: 23382-23390.

CHROMOSOMAL LOCATION

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

SOURCE

IRF-5 (H-56) is a rabbit polyclonal 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 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

IRF-5 (H-56) is recommended for detection of IRF-5 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

IRF-5 (H-56) is also recommended for detection of IRF-5 in additional species, including equine and canine.

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.

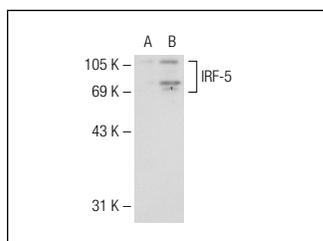
Molecular Weight of IRF-5: 60 kDa.

Positive Controls: THP-1 cell lysate: sc-2238, Ramos cell lysate: sc-2216 or IRF-5 (m): 293 Lysate: sc-178817.

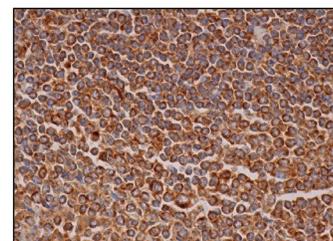
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz[™]: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



IRF-5 (H-56): sc-98651. Western blot analysis of IRF-5 expression in non-transfected: sc-110760 (A) and mouse IRF-5 transfected: sc-178817 (B) 293 whole cell lysates.



IRF-5 (H-56): sc-98651. Immunoperoxidase staining of formalin fixed, paraffin-embedded human spleen tissue showing cytoplasmic staining of cells in white pulp and cells in red pulp.

SELECT PRODUCT CITATIONS

- Shen, H., et al. 2010. Gender-dependent expression of murine Irf5 gene: implications for sex bias in autoimmunity. *J. Mol. Cell Biol.* 2: 284-290.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

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

MONOS
Satisfaction
Guaranteed

Try **IRF-5 (C-6): sc-390364** or **IRF-5 (D-10): sc-390365**, our highly recommended monoclonal alternatives to IRF-5 (H-56).