

# 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 $\gamma$  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

1. 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.
2. Mamane, Y., et al. 1999. Interferon regulatory factors: the next generation. *Gene* 237: 1-14.
3. Barnes, B.J., et al. 2001. Virus-specific activation of a novel interferon regulatory factor, IRF-5, results in the induction of distinct interferon  $\alpha$  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  $\mu$ 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  $\mu$ g per 100-500  $\mu$ 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.

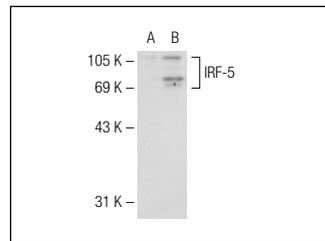
Molecular Weight of IRF-5: 60 kDa.

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

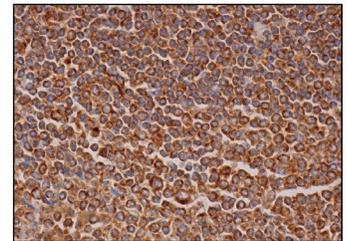
## RECOMMENDED SECONDARY REAGENTS

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

1. 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](http://www.scbt.com) or our catalog for detailed protocols and support products.


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