

IRF-2 (H-17): sc-30893

BACKGROUND

Interferon regulatory factor-1 (IRF-1) and IRF-2 have been identified as novel DNA-binding factors that function as regulators of both type I interferon (interferon- α and β) and interferon-inducible genes. The two factors are structurally related, particularly in their N-terminal regions, which confer DNA binding specificity. In addition, both bind to the same sequence within the promoters of interferon- α and interferon- β genes. IRF-1 functions as an activator of interferon transcription, while IRF-2 binds to the same *cis* elements and represses IRF-1 action. IRF-1 and IRF-2 have been reported to act in a mutually antagonistic manner in regulating cell growth; overexpression of the repressor IRF-2 leads to cell transformation while concomitant overexpression of IRF-1 causes reversion. IRF-1 and IRF-2 are members of a larger family of DNA binding proteins that includes IRF-3, IRF-4, IRF-5, IRF-6, IRF-7, ISGF-3 γ p48 (the 48 kDa component of the ISGF-3 complex) and IFN consensus sequence-binding protein (ICSBP).

CHROMOSOMAL LOCATION

Genetic locus: IRF2 (human) mapping to 4q35.1; Irf2 (mouse) mapping to 8 B1.1.

SOURCE

IRF-2 (H-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of IRF-2 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.

Blocking peptide available for competition studies, sc-30893 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

IRF-2 (H-17) is recommended for detection of IRF-2 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

IRF-2 (H-17) is also recommended for detection of IRF-2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for IRF-2 siRNA (h): sc-35708, IRF-2 siRNA (m): sc-35709, IRF-2 shRNA Plasmid (h): sc-35708-SH, IRF-2 shRNA Plasmid (m): sc-35709-SH, IRF-2 shRNA (h) Lentiviral Particles: sc-35708-V and IRF-2 shRNA (m) Lentiviral Particles: sc-35709-V.

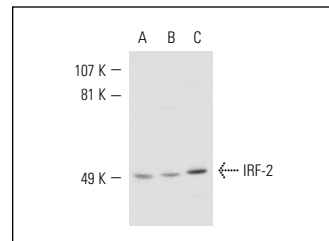
Molecular Weight of IRF-2: 50 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, MM-142 nuclear extract: sc-2139 or IRF-2 (m): 293T Lysate: sc-121108.

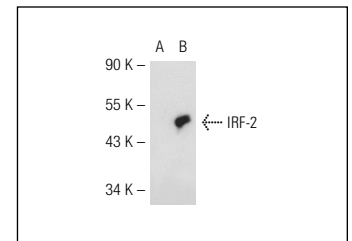
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



IRF-2 (H-17): sc-30893. Western blot analysis of IRF-2 expression in MM-142 nuclear extract (A) and MM-142 (B) and HeLa (C) whole cell lysates.



IRF-2 (H-17): sc-30893. Western blot analysis of IRF-2 expression in non-transfected: sc-117752 (A) and mouse IRF-2 transfected: sc-121108 (B) 293T whole cell lysates.

STORAGE

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

PROTOCOLS

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



Try **IRF-2 (G-10): sc-374327** or **IRF-2 (TQ-5): sc-101069**, our highly recommended monoclonal alternatives to IRF-2 (H-17).