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-3γ p48 and IFN consensus sequence-binding protein (ICSBP).

CHROMOSOMAL LOCATION
Genetic locus: IRF7 (human) mapping to 11p15.5; Irf7 (mouse) mapping to 7 F5.

SOURCE
IRF-7 (H-246) is a rabbit polyclonal antibody raised against amino acids 1-246 of IRF-7 of human origin.

PRODUCT
Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Available as TransCruz reagent for Gel Supershift and ChiP applications, sc-9083 X, 200 µg/0.1 ml.

APPLICATIONS
IRF-7 (H-246) is recommended for detection of IRF-7 of mouse, rat, and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg 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). Suitable for use as control antibody for IRF-7 siRNA (h): sc-38011, IRF-7 siRNA (m): sc-38012, IRF-7 shRNA Plasmid (h): sc-38011-SH, IRF-7 shRNA Plasmid (m): sc-38012-SH, IRF-7 shRNA (h) Lentiviral Particles: sc-38011-V and IRF-7 shRNA (m) Lentiviral Particles: sc-38012-V.

IRF-7 (H-246) X TransCruz antibody is recommended for Gel Supershift and ChiP applications.

Molecular Weight of IRF-7 isoform A: 54 kDa.
Molecular Weight of IRF-7 isoform B: 51 kDa.
Molecular Weight of IRF-7 isoform C: 18 kDa.
Molecular Weight of IRF-7 isoform D: 56 kDa.
Positive Controls: Jurkat whole cell lysate: sc-2204, HEK293 whole cell lysate: sc-45136 or HuT 78 whole cell lysate: sc-2208.

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

DATA

SELECT PRODUCT CITATIONS

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