

# IFI-202 (S-19): sc-6054

## BACKGROUND

Interferon-inducible proteins include IFI-202, IFI-203, IFI-204 and D3, which are encoded by six or more structurally related and IFN-inducible mouse genes mapping at the q21-q23 region of chromosome 1. The proteins encoded by these genes have homologous 200 amino acid segments. IFI-202 is a primarily nuclear phosphoprotein which inhibits cell growth, in part by modulating transcriptional activity of NFκB, E2F, AP-1 and p53. Two related human proteins, MNDA (myeloid cell nuclear differentiation antigen) and IFI-16, have also been described. Expression of MNDA has been observed specifically in cells of the granulocyte-macrophage lineage. IFI-16 is constitutively expressed in various T and B cell lines and can be induced by IFN-γ in HL60 cells. At least four of the Gene 200 cluster of IFN-inducible proteins, IFI-202, IFI-204, MNDA and IFI-16, are localized in the nucleus.

## REFERENCES

1. Tannenbaum, C.S., et al. 1993. A lipopolysaccharide-inducible macrophage gene (D<sub>3</sub>) is a new member of an interferon-inducible gene cluster and is selectively expressed in mononuclear phagocytes. *J. Leuk. Biol.* 53: 563-568.
2. Briggs, R.C., et al. 1994. The human myeloid cell nuclear differentiation antigen gene is one of at least two related interferon-inducible genes located on chromosome 1q that are expressed specifically in hematopoietic cells. *Blood* 83: 2153-2162.

## CHROMOSOMAL LOCATION

Genetic locus: Ifi202b (mouse) mapping to 1 H3.

## SOURCE

IFI-202 (S-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of IFI-202 of mouse origin.

## PRODUCT

Each vial contains 200 μg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-6054 P, (100 μg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

IFI-202 (S-19) is recommended for detection of IFI-202 of mouse and rat 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 IFI-202 siRNA (m): sc-40698, IFI-202 shRNA Plasmid (m): sc-40698-SH and IFI-202 shRNA (m) Lentiviral Particles: sc-40698-V.

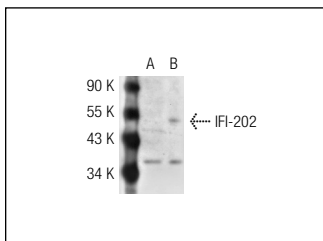
Molecular Weight of IFI-202: 52 kDa.

Positive Controls: IFI-202 (m): 293T Lysate: sc-120949 or RAW 264.7 whole cell lysate: sc-2211.

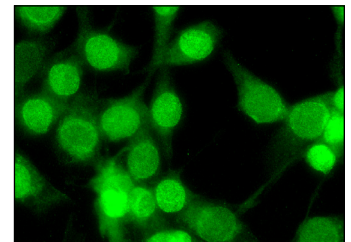
## RECOMMENDED SECONDARY REAGENTS

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



IFI-202 (S-19): sc-6054. Western blot analysis of IFI-202 expression in non-transfected: sc-117752 (A) and mouse IFI-202 transfected: sc-120949 (B) 293T whole cell lysates.



IFI-202 (S-19): sc-6054. Immunofluorescence staining of methanol-fixed NIH/3T3 cells showing nuclear and cytoplasmic localization.

## SELECT PRODUCT CITATIONS

1. Geng, Y., et al. 2000. p202 levels are negatively regulated by serum growth factors. *Cell Growth Differ.* 11: 475-483.
2. Choubey, D., et al. 2003. Subcellular localization and mechanisms of nucleocytoplasmic distribution of p202, an interferon-inducible candidate for lupus susceptibility. *FEBS Lett.* 553: 245-249.
3. Xin, H., et al. 2006. Increased expression of IFI-202, an IFN-activatable gene, in B6.Nba2 lupus susceptible mice inhibits p53-mediated apoptosis. *J. Immunol.* 176: 5863-5870.

## 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.


 MONOS  
Satisfaction  
Guaranteed

Try **IFI-202 (F-7): sc-166253**, our highly recommended monoclonal alternative to IFI-202 (S-19).