

IFI-16 (C-18): sc-6050

BACKGROUND

The TAK1 binding proteins, TAB1, TAB2 and TAB3, interact with the MAPKKK TAK1 in response to various stimuli. TAB1 activates TAK1 in TGF β mediated signaling. TAB1 also plays a central role in a p38 α activation pathway that is independent of MAPKK. In response to proinflammatory signals, TAB2 complexes with TRAF6 and TAK1, leading to translocation of the complex from the membrane to the cytosol and the subsequent activation of TAK1. When overexpressed, TAB3 activates both NF κ B and AP-1 transcription factors. In response to TNF α or IL-1, TAK1 complexes with TAB1 and TAB2 or with TAB1 and TAB3 to yield two distinct complexes.

REFERENCES

1. Tannenbaum, C.S., et al. 1993. A lipopolysaccharide-inducible macrophage gene (D3) is a new member of an interferon-inducible gene cluster and is selectively expressed in mononuclear phagocytes. *J. Leukoc. 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.
3. Lengyel, P., et al. 1995. The interferon-activatable gene 200 cluster: from structure toward function. *Semin. Virol.* 6: 203-213.
4. Datta, B., et al. 1996. p202, an interferon-inducible modulator of transcription, inhibits transcriptional activation by the p53 tumor suppressor protein, and a segment from the p53-binding protein 1 that binds to p202 overcomes this inhibition. *J. Biol. Chem.* 271: 27544-27555.
5. Min, W., et al. 1996. The interferon-inducible p202 protein as a modulator of transcription: inhibition of NF κ B, c-Fos, and c-Jun activities. *Mol. Cell. Biol.* 16: 359-368.

CHROMOSOMAL LOCATION

Genetic locus: IFI16 (human) mapping to 1q23.1.

SOURCE

IFI-16 (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of IFI-16 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-6050 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

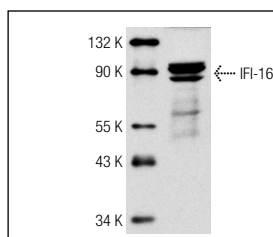
IFI-16 (C-18) is recommended for detection of IFI-16 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500), flow cytometry (1 μ g per 1 x 10⁶ cells) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for IFI-16 siRNA (h): sc-35633, IFI-16 shRNA Plasmid (h): sc-35633-SH and IFI-16 shRNA (h) Lentiviral Particles: sc-35633-V.

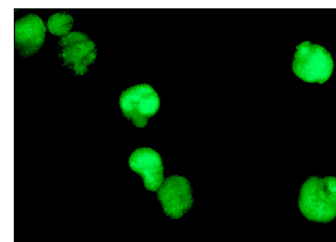
Molecular Weight of IFI-16: 85-95 kDa.

Positive Controls: Jurkat nuclear extract: sc-2132, IFI-16 (h): 293 Lysate: sc-113241 or HuT 78 whole cell lysate: sc-2208.

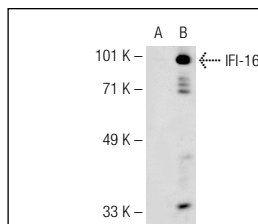
DATA



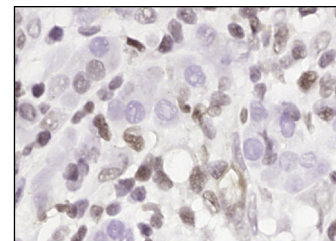
IFI-16 (C-18): sc-6050. Western blot analysis of IFI-16 expression in Jurkat nuclear extract.



IFI-16 (C-18): sc-6050. Immunofluorescence staining of methanol-fixed Jurkat cells showing nuclear staining.



IFI-16 (C-18): sc-6050. Western blot analysis of IFI-16 expression in non-transfected: sc-110760 (A) and human IFI-16 transfected: sc-113241 (B) whole cell lysates.



IFI-16 (C-18): sc-6050. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human lymphoma showing nuclear staining.

SELECT PRODUCT CITATIONS

1. Kotłowska-Kmiec, A., et al. 2009. *Helicobacter pylori* increases expression of proapoptotic markers Fas and FasL on CD4 lymphocytes in children. *Acta Biochim. Pol.* 56: 433-438.

MONOS
Satisfaction
Guaranteed

Try **IFI-16 (1G7): sc-8023** or **IFI-16 (G-4): sc-166472**, our highly recommended monoclonal alternatives to IFI-16 (C-18). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **IFI-16 (1G7): sc-8023**.