### SANTA CRUZ BIOTECHNOLOGY, INC.

# MNDA (C-19): sc-6051



#### 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 NF<sub>K</sub>B, 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- $\gamma$  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.

#### CHROMOSOMAL LOCATION

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

#### SOURCE

MNDA (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of MNDA 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.

Blocking peptide available for competition studies, sc-6051 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **STORAGE**

Store at 4° C, \*\*D0 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**

MNDA (C-19) is recommended for detection of MNDA of 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), 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).

Suitable for use as control antibody for MNDA siRNA (h): sc-40701, MNDA shRNA Plasmid (h): sc-40701-SH and MNDA shRNA (h) Lentiviral Particles: sc-40701-V.

Molecular Weight of MNDA: 55 kDa.

Positive Controls: THP-1 cell lysate: sc-2238 or AML-193 whole cell lysate: sc-364182.

#### **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. 4) Immuno-histochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

#### DATA





MNDA (C-19): sc-6051. Western blot analysis of MNDA expression in THP-1  $({\rm A})$  and AML-193  $({\rm B})$  whole cell lysates.

MNDA (C-19): sc-6051. Immunofluorescence staining of methanol-fixed THP-1 cells showing cytoplasmic and nuclear staining (**A**). Immunoperoxidase staining of formalin fixed, para-ffin-embedded human bone marrow tissue showing nuclear staining of subset of hematopoietic cells (**B**).

#### SELECT PRODUCT CITATIONS

 Fernandes-Alnemri, T., et al. 2009. AIM2 activates the inflammasome and cell death in response to cytoplasmic DNA. Nature 458: 509-513.

#### **PROTOCOLS**

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

## MONOS Satisfation Guaranteed

Try **MNDA (C-3): sc-390739**, our highly recommended monoclonal alternative to MNDA (C-19).