SANTA CRUZ BIOTECHNOLOGY, INC.

IVNS1ABP (H-300): sc-98721

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

IVNS1ABP (influenza virus NS1A binding protein), also known as ARA3, FLARA3, KIAA0850, NS1 or NS1BP, is a 642 amino acid protein that localizes to both the nucleus and the cytoplasm and contains one BACK domain, one BTB (POZ) domain and six Kelch repeats. Functioning as a homodimer that is connected via its BTB domain, IVNS1ABP associates with F-Actin and, via this association, plays an important role in the organization and stabilization of the Actin skeleton. Due to its role in cytoskeletal function, IVNS1ABP participates in a variety of events throughout the cell, including the regulation of cell division and pre-mRNA splicing, the activation of the ERK signaling pathway and the protection of neurons from dendritic spines.

REFERENCES

1. Nagase, T., et al. 1998. Prediction of the coding sequences of unidentified human genes. XII. The complete sequences of 100 new cDNA clones from brain which code for large proteins *in vitro*. DNA Res. 5: 355-364.
2. Wolff, T., et al. 1998. NS1-binding protein (NS1-BP): a novel human protein that interacts with the influenza A virus nonstructural NS1 protein is relocalized in the nuclei of infected cells. J. Virol. 72: 7170-7180.
3. Harris, C.E., et al. 1999. A novel heterogeneous nuclear ribonucleoprotein-like protein interacts with NS1 of the minute virus of mice. J. Virol. 73: 72-80.
4. Sasagawa, K., et al. 2002. Identification of ND1, a novel murine kelch family protein, involved in stabilization of Actin filaments. J. Biol. Chem. 277: 44140-44146.
5. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 609209. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
6. Dunham, E.E., et al. 2006. The aryl hydrocarbon receptor signaling pathway is modified through interactions with a kelch protein. Mol. Pharmacol. 70: 8-15.
7. Perconti, G., et al. 2007. The kelch protein NS1-BP interacts with α-enolase/MBP-1 and is involved in c-Myc gene transcriptional control. Biochim. Biophys. Acta 1773: 1774-1785.

CHROMOSOMAL LOCATION

Genetic locus: IVNS1ABP (human) mapping to 1q25.3; Ivns1abp (mouse) mapping to 1 G2.

SOURCE

IVNS1ABP (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of IVNS1ABP 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.

RESEARCH USE

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

APPLICATIONS

IVNS1ABP (H-300) is recommended for detection of IVNS1ABP 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).

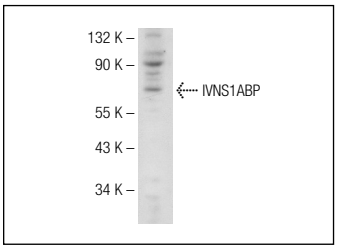
IVNS1ABP (H-300) is also recommended for detection of IVNS1ABP in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for IVNS1ABP siRNA (h): sc-75349, IVNS1ABP siRNA (m): sc-75350, IVNS1ABP shRNA Plasmid (h): sc-75349-SH, IVNS1ABP shRNA Plasmid (m): sc-75350-SH, IVNS1ABP shRNA (h) Lentiviral Particles: sc-75349-V and IVNS1ABP shRNA (m) Lentiviral Particles: sc-75350-V.

Molecular Weight of IVNS1ABP: 70 kDa.

Positive Controls: HeLa nuclear extract: sc-2120.

DATA



IVNS1ABP (H-300): sc-98721. Western blot analysis of IVNS1ABP expression in HeLa nuclear extract.

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.