

IVNS1ABP (Q-18): sc-69504

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 6 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/>

CHROMOSOMAL LOCATION

Genetic locus: IVNS1ABP (human) mapping to 1q25.3; *lvns1abp* (mouse) mapping to 1 G2.

SOURCE

IVNS1ABP (Q-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region 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.

Blocking peptide available for competition studies, sc-69504 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-69504 X, 200 µg/0.1 ml.

STORAGE

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

APPLICATIONS

IVNS1ABP (Q-18) 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 (Q-18) is also recommended for detection of IVNS1ABP in additional species, including canine, bovine and porcine.

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.

IVNS1ABP (Q-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

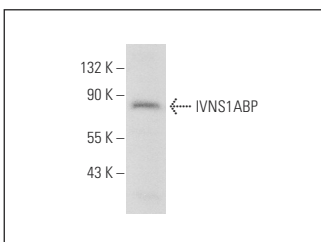
Molecular Weight of IVNS1ABP: 70 kDa.

Positive Controls: HeLa nuclear extract: sc-2120 or KNRK whole cell lysate: sc-2214.

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



IVNS1ABP (Q-18): sc-69504. Western blot analysis of IVNS1ABP expression in KNRK whole cell lysate.

RESEARCH USE

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