

IVNS1ABP (Y-17): sc-69505

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

- 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.
- 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.
- 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.
- 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.
- 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/>
- 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.
- 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 (Y-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of IVNS1ABP of human origin.

STORAGE

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

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-69505 P, (100 μ g 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-69505 X, 200 μ g/0.1 ml.

APPLICATIONS

IVNS1ABP (Y-17) 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), 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 (Y-17) 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.

IVNS1ABP (Y-17) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of IVNS1ABP: 70 kDa.

Positive Controls: HeLa nuclear extract: sc-2120.

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) 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.

RESEARCH USE

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

PROTOCOLS

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