

IVNS1ABP (G-9): sc-373909

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/>

CHROMOSOMAL LOCATION

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

SOURCE

IVNS1ABP (G-9) is a mouse monoclonal antibody raised against amino acids 1-300 mapping at the N-terminus of IVNS1ABP of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

IVNS1ABP (G-9) is available conjugated to agarose (sc-373909 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-373909 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-373909 PE), fluorescein (sc-373909 FITC), Alexa Fluor® 488 (sc-373909 AF488), Alexa Fluor® 546 (sc-373909 AF546), Alexa Fluor® 594 (sc-373909 AF594) or Alexa Fluor® 647 (sc-373909 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-373909 AF680) or Alexa Fluor® 790 (sc-373909 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

IVNS1ABP (G-9) is recommended for detection of IVNS1ABP of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

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.

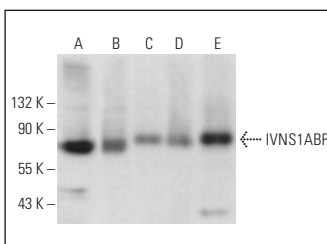
Molecular Weight of IVNS1ABP: 70 kDa.

Positive Controls: 3611-RF whole cell lysate: sc-2215, HeLa nuclear extract: sc-2120 or MOLT-4 nuclear extract: sc-2151.

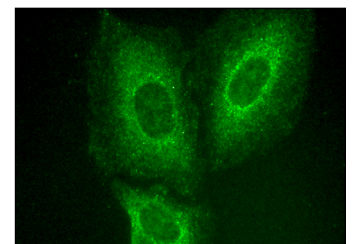
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



IVNS1ABP (G-9): sc-373909. Western blot analysis of IVNS1ABP expression in HeLa (A), MOLT-4 (B), NIH/3T3 (C) and KNRK (D) nuclear extracts and 3611-RF whole cell lysate (E).



IVNS1ABP (G-9): sc-373909. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

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.

PROTOCOLS

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