

Abin-1 (G-12): sc-376999

BACKGROUND

Abin-1, also known as TNIP1 (TNFAIP3 interacting protein 1), VAN or NAF1 (nef-associated factor 1), is a 636 amino acid protein that localizes to both the nucleus and the cytoplasm and is shuttled between the two intercellular regions in a CRM1-dependent manner. Expressed ubiquitously with highest expression in spleen and skeletal muscle, Abin-1 interacts with A20 and, via this interaction, interferes with TRAF2-mediated transactivation signals and effectively inhibits TNF-induced NF κ B expression. Additionally, Abin-1 can be incorporated into HIV-1 virions and, if overexpressed, can inhibit viral replication. Abin-1 may also play an important role in the regulation of nuclear import and export activities. Multiple isoforms of Abin-1 exist due to alternative splicing events.

REFERENCES

1. Fukushi, M., et al. 1999. Identification and cloning of a novel cellular protein Naf1, Nef-associated factor 1, that increases cell surface CD4 expression. *FEBS Lett.* 442: 83-88.
2. Zhang, S., et al. 2002. A new ERK2 binding protein, Naf1, attenuates the EGF/ERK2 nuclear signaling. *Biochem. Biophys. Res. Commun.* 297: 17-23.
3. Online Mendelian Inheritance in Man, OMIM[™]. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 607714. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
4. Favre, M., et al. 2003. High frequency of alternative splicing of human genes participating in the HIV-1 life cycle: a model using TSG101, β TrCP, PPIA, INI1, NAF1, and PML. *J. Acquir. Immune Defic. Syndr.* 34: 127-133.
5. Shiote, Y., et al. 2006. Multiple splicing variants of Naf1/Abin-1 transcripts and their alterations in hematopoietic tumors. *Int. J. Mol. Med.* 18: 917-923.

CHROMOSOMAL LOCATION

Genetic locus: TNIP1 (human) mapping to 5q33.1; Tnip1 (mouse) mapping to 11 B1.3.

SOURCE

Abin-1 (G-12) is a mouse monoclonal antibody raised against amino acids 1-300 mapping at the N-terminus of Abin-1 of human origin.

PR26ODUCT

Each vial contains 200 μ g IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-376999 X, 200 μ g/0.1 ml.

Abin-1 (G-12) is available conjugated to agarose (sc-376999 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-376999 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376999 PE), fluorescein (sc-376999 FITC), Alexa Fluor[®] 488 (sc-376999 AF488), Alexa Fluor[®] 546 (sc-376999 AF546), Alexa Fluor[®] 594 (sc-376999 AF594) or Alexa Fluor[®] 647 (sc-376999 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-376999 AF680) or Alexa Fluor[®] 790 (sc-376999 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

Abin-1 (G-12) is recommended for detection of Abin-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 Abin-1 siRNA (h): sc-92019, Abin-1 siRNA (m): sc-140779, Abin-1 shRNA Plasmid (h): sc-92019-SH, Abin-1 shRNA Plasmid (m): sc-140779-SH, Abin-1 shRNA (h) Lentiviral Particles: sc-92019-V and Abin-1 shRNA (m) Lentiviral Particles: sc-140779-V.

Abin-1 (G-12) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

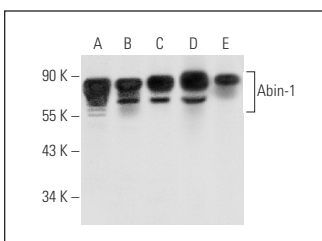
Molecular Weight of Abin-1: 72 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Jurkat whole cell lysate: sc-2204 or Raji whole cell lysate: sc-364236.

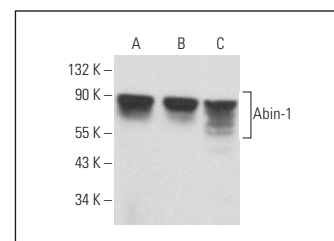
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ 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-IgG κ BP-FITC: sc-516140 or m-IgG κ 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



Abin-1 (G-12): sc-376999. Western blot analysis of Abin-1 expression in Jurkat (A), A2058 (B), HeLa (C), Raji (D) and HEL 92.1.7 (E) whole cell lysates.



Abin-1 (G-12): sc-376999. Western blot analysis of Abin-1 expression in Jurkat (A), CCRF-CEM (B) and RPE-J (C) whole cell lysates.

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.