

Abin-2 (H-8): sc-271850

BACKGROUND

The nuclear factor NF κ B is essential for the regulation of immune response genes, inflammatory processes and apoptosis. Abin-2 (also designated A20-binding inhibitor of NF κ B activation 2) is an intracellular zinc-finger protein that inhibits the expression of NF κ B by recruiting a chromatin-remodeling complex to the target gene. Abin-2, a p105-associated protein, is a potent inhibitor of TNF-induced cell death. Abin-2 can also associate with TPL-2, and in endogenous tissues it is frequently associated with both TPL-2 and p105. siRNA depletion of Abin-2 has been found to reduce levels of TPL-2 but not of p105, which indicates that Abin-2 is involved in the TLR4 signaling pathway. Abin-2 inhibits endothelial apoptosis, but upon deletion of the carboxy-terminus of the protein, its ability to inhibit apoptosis is removed.

CHROMOSOMAL LOCATION

Genetic locus: TNIP2 (human) mapping to 4p16.3.

SOURCE

Abin-2 (H-8) is a mouse monoclonal antibody raised against amino acids 1-300 mapping at the N-terminus of Abin-2 of human origin.

PRODUCT

Each vial contains 200 μ g IgG_{2a} 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-271850 X, 200 μ g/0.1 ml.

Abin-2 (H-8) is available conjugated to agarose (sc-271850 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-271850 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-271850 PE), fluorescein (sc-271850 FITC), Alexa Fluor[®] 488 (sc-271850 AF488), Alexa Fluor[®] 546 (sc-271850 AF546), Alexa Fluor[®] 594 (sc-271850 AF594) or Alexa Fluor[®] 647 (sc-271850 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-271850 AF680) or Alexa Fluor[®] 790 (sc-271850 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

Abin-2 (H-8) is recommended for detection of Abin-2 of 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-2 siRNA (h): sc-44638, Abin-2 shRNA Plasmid (h): sc-44638-SH and Abin-2 shRNA (h) Lentiviral Particles: sc-44638-V.

Abin-2 (H-8) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

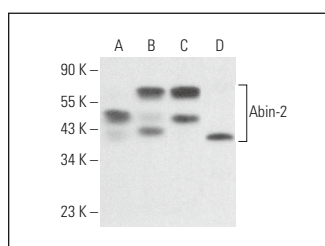
Molecular Weight of Abin-2 isoforms: 49/37 kDa.

Positive Controls: NCI-H226 whole cell lysate: sc-364256, HL-60 whole cell lysate: sc-2209 or HCT-116 whole cell lysate: sc-364175.

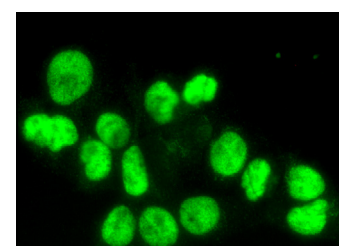
RECOMMENDED SUPPORT REAGENTS

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-2 (H-8): sc-271850. Western blot analysis of Abin-2 expression in HCT-116 (A), HL-60 (B), NCI-H226 (C) and c4 (D) whole cell lysates.



Abin-2 (H-8): sc-271850. Immunofluorescence staining of formalin-fixed Hep G2 cells showing nuclear localization.

SELECT PRODUCT CITATIONS

- Chorzalska, A., et al. 2018. Overexpression of Tpl2 is linked to imatinib resistance and activation of MEK-ERK and NF κ B pathways in a model of chronic myeloid leukemia. *Mol. Oncol.* 12: 630-647.
- Gong, H., et al. 2019. Expression and role of TNIP2 in multiple organ dysfunction syndrome following severe trauma. *Mol. Med. Rep.* 19: 2906-2912.

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.