

Abin-2 (H-300): sc-50526

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.

REFERENCES

1. Wu, W.S., et al. 2002. The promyelocytic leukemia protein represses A20-mediated transcription. *J. Biol. Chem.* 277: 31734-31739.
2. Tadros, A., et al. 2003. Abin-2 protects endothelial cells from death and has a role in the antiapoptotic effect of angiotensin-1. *Blood* 102: 4407-4409.

CHROMOSOMAL LOCATION

Genetic locus: TNIP2 (human) mapping to 4p16.3; Trnp2 (mouse) mapping to 5 B2.

SOURCE

Abin-2 (H-300) is a rabbit polyclonal 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 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-50526 X, 200 μ g/0.1 ml.

APPLICATIONS

Abin-2 (H-300) is recommended for detection of Abin-2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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 siRNA (m): sc-44639, Abin-2 shRNA Plasmid (h): sc-44638-SH, Abin-2 shRNA Plasmid (m): sc-44639-SH, Abin-2 shRNA (h) Lentiviral Particles: sc-44638-V and Abin-2 shRNA (m) Lentiviral Particles: sc-44639-V.

Abin-2 (H-300) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

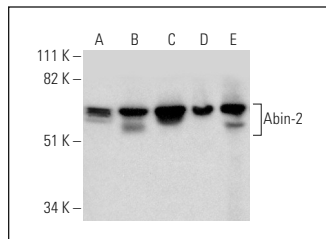
Molecular Weight of Abin-2 isoforms: 49/37 kDa.

Positive Controls: SW480 cell lysate: sc-2219, HL-60 whole cell lysate: sc-2209 or Hep G2 cell lysate: sc-2227.

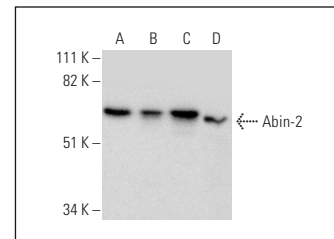
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Abin-2 (H-300): sc-50526. Western blot analysis of Abin-2 expression in SW480 (A), HL-60 (B), Hep G2 (C) and NCI-H226 (D) whole cell lysates and mouse heart tissue extract (E).



Abin-2 (H-300): sc-50526. Western blot analysis of Abin-2 expression in U-251 MG (A), A549 (B) and COLO 205 (C) whole cell lysates and mouse brain tissue extract (D).

SELECT PRODUCT CITATIONS

1. Leotoing, L., et al. 2011. A20-binding inhibitor of nuclear factor- κ B (NF κ B)-2 (ABIN-2) is an activator of inhibitor of NF κ B (I κ B) kinase α (IKK α)-mediated NF κ B transcriptional activity. *J. Biol. Chem.* 286: 32277-32288.

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 or our catalog for detailed protocols and support products.


 MONOS
Satisfaction
Guaranteed

Try **Abin-1 (G-12): sc-376999**, our highly recommended monoclonal alternative to Abin-1 (H-300).