SANTA CRUZ BIOTECHNOLOGY, INC.

FNBP2 (C-14): sc-103497

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

FNBP2 (formin binding protein 2), also known as SRGAP3, ARHGAP34 or SRGAP2 (SLIT-ROBO Rho GTPase activating protein 2), is a 1,071 amino acid protein that is expressed at at low levels in placenta, kidney and ovary. Containing a FCH (Fps/Fes/Fer/CIP4 homology) domain, a Rho GAP domain and a SH3 (Src homology 3) domain, FNBP2 is considered a putative GTPase-activating protein for Rho family small GTPases. Rho GTPases are molecular switches that regulate many essential cellular processes, including actin dynamics, cell adhesion, cell-cycle progression and transcription. The FNBP2 family includes such proteins as SRGAP1, WRP (WAVE-associated Rac GTPase-activating protein) and ARHGAP4, which are characterized by FCH, FBH, Rho GAP and SH3 domains, and may have a part in cell migration and axon guidance.

REFERENCES

1. Chan, D.C., et al. 1996. Formin binding proteins bear WWP/WW domains that bind proline-rich peptides and functionally resemble SH3 domains. EMBO J. 15: 1045-1054.
2. Wong, K., et al. 2001. Signal transduction in neuronal migration: roles of GTPase activating proteins and the small GTPase Cdc42 in the Slit-Robo pathway. Cell 107: 209-221.
3. Katoh, M., et al. 2003. FNBP2 gene on human chromosome 1q32.1 encodes ARHGAP family protein with FCH, FBH, Rho GAP and SH3 domains. Int. J. Mol. Med. 11: 791-797.
4. Katoh, M., et al. 2004. Identification and characterization of human FCHSD1 and FCHSD2 genes in silico. Int. J. Mol. Med. 13: 749-754.
5. Katoh, M., et al. 2004. Identification and characterization of the human FMN1 gene in silico. Int. J. Mol. Med. 14: 121-126.
6. Katoh, M., et al. 2004. Identification and characterization of human FCHO2 and mouse Fcho2 genes in silico. Int. J. Mol. Med. 14: 327-331.

CHROMOSOMAL LOCATION

Genetic locus: SRGAP2 (human) mapping to 1q32.1; Srgap2 (mouse) mapping to 1 E4.

SOURCE

FNBP2 (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of FNBP2 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-103497 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

FNBP2 (C-14) is recommended for detection of FNBP2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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); non cross-reactive with family members FNBP1, FNBP3 or FNBP4.

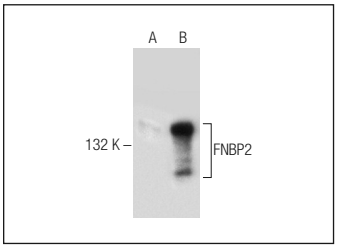
FNBP2 (C-14) is also recommended for detection of FNBP2 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for FNBP2 siRNA (h): sc-88206, FNBP2 siRNA (m): sc-105368, FNBP2 shRNA Plasmid (h): sc-88206-SH, FNBP2 shRNA Plasmid (m): sc-105368-SH, FNBP2 shRNA (h) Lentiviral Particles: sc-88206-V and FNBP2 shRNA (m) Lentiviral Particles: sc-105368-V.

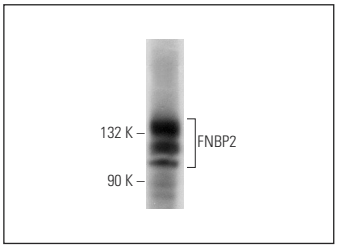
Molecular Weight of FNBP2: 121 kDa.

Positive Controls: FNBP2 (m): 293T Lysate: sc-178625 or SH-SY5Y cell lysate: sc-3812.

DATA



FNBP2 (C-14): sc-103497. Western blot analysis of FNBP2 expression in non-transfected: sc-117752 (**A**) and mouse FNBP2 transfected: sc-178625 (**B**) 293T whole cell lysates.



FNBP2 (C-14): sc-103497. Western blot analysis of FNBP2 expression in SH-SY5Y whole cell lysate.

STORAGE

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

PROTOCOLS

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

MONOS Satisfaction Guaranteed

Try **FNBP2 (G-10): sc-398399**, our highly recommended monoclonal alternative to FNBP2 (C-14).