

3BP1 (D-17): sc-86268

BACKGROUND

3BP1 (SH3 domain-binding protein 1) is a 701 amino acid protein with sequence similarity to the COOH-terminal segment of Bcr. This similarity suggests 3BP1 has GTPase-activating protein (GAP) activity for Rac-related proteins. 3BP1 also binds to the SH3 domains of signal transduction pathway proteins, with preference for SRC-1 and GRB2. 3BP1 has also been found to inhibit PDGF-induced membrane ruffling mediated by Rac. Expressed as two isoforms produced by alternative splicing, 3BP1 contains one BAR domain and one Rho-GAP domain.

REFERENCES

1. Cicchetti, P., et al. 1992. Identification of a protein that binds to the SH3 region of Abl and is similar to Bcr and GAP-Rho. *Science* 257: 803-806.
2. Zhang, B. and Zheng, Y. 1998. Regulation of RhoA GTP hydrolysis by the GTPase-activating proteins p190, p50RhoGAP, Bcr, and 3BP-1. *Biochemistry* 37: 5249-5257.

CHROMOSOMAL LOCATION

Genetic locus: SH3BP1 (human) mapping to 22q13.1; Sh3bp1 (mouse) mapping to 15 E1.

SOURCE

3BP1 (D-17) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of 3BP1 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-86268 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

3BP1 (D-17) is recommended for detection of 3BP1 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).

3BP1 (D-17) is also recommended for detection of 3BP1 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for 3BP1 siRNA (h): sc-77021, 3BP1 siRNA (m): sc-108929, 3BP1 shRNA Plasmid (h): sc-77021-SH, 3BP1 shRNA Plasmid (m): sc-108929-SH, 3BP1 shRNA (h) Lentiviral Particles: sc-77021-V and 3BP1 shRNA (m) Lentiviral Particles: sc-108929-V.

Molecular Weight of 3BP1 isoform 1: 76 kDa.

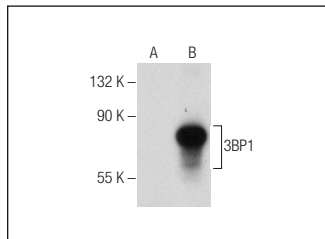
Molecular Weight of 3BP1 isoform 2: 51 kDa.

Positive Controls: 3BP1 (m): 293T Lysate: sc-117985 or HeLa whole cell lysate: sc-2200.

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



3BP1 (D-17): sc-86268. Western blot analysis of 3BP1 expression in non-transfected: sc-117752 (A) and mouse 3BP1 transfected: sc-117985 (B) 293T 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.

PROTOCOLS

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

MONOS
Satisfaction
Guaranteed

Try **3BP1 (D-9): sc-376192** or **3BP1 (A-5): sc-376720**, our highly recommended monoclonal alternatives to 3BP1 (D-17).