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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

3BP1 (m): 293T Lysate: sc-117985

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., et al. 1998. Regulation of RhoA GTP hydrolysis by the GTPase-activating proteins p190, p50RhoGAP, Bcr, and 3BP-1. *Biochemistry* 37: 5249-5257.
3. Väström, L., et al. 1999. SEMA3A-induced growth-cone collapse is mediated by Rac 1 amino acids 17-32. *Curr. Biol.* 9: 991-998.
4. So, C.W., et al. 2000. The interaction between EEN and Abi-1, two MLL fusion partners, and synaptojanin and dynamin: implications for leukaemogenesis. *Leukemia* 14: 594-601.
5. Scott, M.P., et al. 2002. Identification of novel SH3 domain ligands for the Src family kinase Hck. Wiskott-Aldrich syndrome protein (WASP), WASP-interacting protein (WIP), and ELMO1. *J. Biol. Chem.* 277: 28238-28246.

CHROMOSOMAL LOCATION

Genetic locus: Sh3bp1 (mouse) mapping to 15 E1.

PRODUCT

3BP1 (m): 293T Lysate represents a lysate of mouse 3BP1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

3BP1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive 3BP1 antibodies.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

3BP1 (C-12): sc-390557 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse 3BP1 expression in 3BP1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

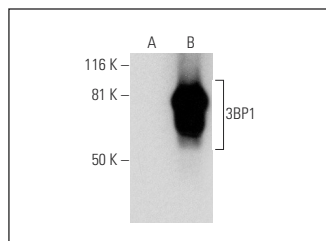
To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ 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.

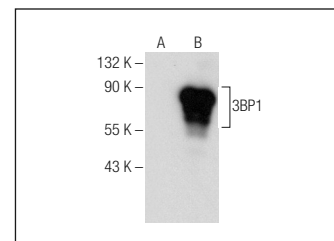
STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

DATA



3BP1 (C-12): sc-390557. Western blot analysis of 3BP1 expression in non-transfected: sc-117752 (A) and mouse 3BP1 transfected: sc-117985 (B) 293T whole cell lysates.



3BP1 (A-5): sc-376720. Western blot analysis of 3BP1 expression in non-transfected: sc-117752 (A) and mouse 3BP1 transfected: sc-117985 (B) 293T whole cell lysates.

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.