

## 3BP2 (C-19): sc-8897

### BACKGROUND

3BP2 is a Syk family kinase-interacting protein (SKIP) that is expressed in spleen and peripheral blood leukocytes. 3BP2 was originally characterized as an Abl SH3-interacting protein, as it contains a single proline-rich domain and an SH2 domain, consistent with other adaptor molecules. In Jurkat T cells transfected with 3BP2, stimulation of T cell receptors (TCR) rapidly induces the redistribution of 3BP2 from the cytoplasm to the membrane, where it associates with the TCR/protein tyrosine kinase complexes. Through this translocation, 3BP2 is able to selectively bind to FIt3/FIk2 receptors and to the phosphorylated Syk, Lat and ZAP-70 proteins. In T lymphocytes, the overexpression of 3BP2, specifically the overexpression of the SH2 and proline rich domains, is sufficient to induce the activation of several transcription factors, including NFAT and AP-1. This transactivation results in the upregulation of the IL-2 gene promoter and suggests a role for 3BP2 in mediating T cell signaling.

### CHROMOSOMAL LOCATION

Genetic locus: SH3BP2 (human) mapping to 4p16.3; Sh3bp2 (mouse) mapping to 5 B2.

### SOURCE

3BP2 (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of 3BP2 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-8897 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### STORAGE

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

### APPLICATIONS

3BP2 (N-18) is recommended for detection of 3BP2 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).

Suitable for use as control antibody for 3BP2 siRNA (h): sc-40289, 3BP2 siRNA (m): sc-40290, 3BP2 shRNA Plasmid (h): sc-40289-SH, 3BP2 shRNA Plasmid (m): sc-40290-SH, 3BP2 shRNA (h) Lentiviral Particles: sc-40289-V and 3BP2 shRNA (m) Lentiviral Particles: sc-40290-V.

Molecular Weight (predicted) of 3BP2 isoforms: 62/11/65 kDa.

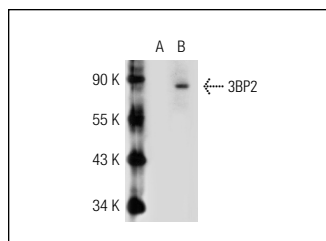
Molecular Weight (observed) of 3BP2: 65-80 kDa.

Positive Controls: 3BP2 (h): 293T Lysate: sc-113954, 3BP2 (m): 293T Lysate: sc-117986 or A-431 whole cell lysate: sc-2201.

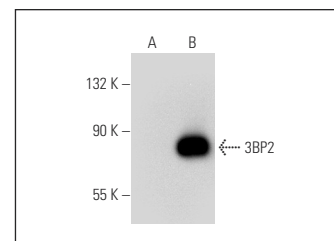
### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### DATA



3BP2 (C-19): sc-8897. Western blot analysis of 3BP2 expression in non-transfected: sc-117752 (A) and human 3BP2 transfected: sc-113954 (B) 293T whole cell lysates.



3BP2 (C-19): sc-8897. Western blot analysis of 3BP2 expression in non-transfected: sc-117752 (A) and mouse 3BP2 transfected: sc-117986 (B) 293T whole cell lysates.

### SELECT PRODUCT CITATIONS

1. Sada, K., et al. 2002. Regulation of Fc ε RI-mediated degranulation by an adaptor protein 3BP2 in rat basophilic leukemia RBL-2H3 cells. *Blood* 100: 2138-2144.

### RESEARCH USE

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

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **3BP2 (C-5): sc-166459** or **3BP2 (C-11): sc-377020**, our highly recommended monoclonal alternatives to 3BP2 (C-19).