

## SHKBP1 (B-7): sc-390121



The Power to Question

## BACKGROUND

SHKBP1, also known as SH3KBP1 binding protein 1, is a 707 amino acid protein belonging to the KCTD3 family. Acting downstream of Flt-3/Flk-2, SHKBP1 interacts with CIN85. SHKBP1 contains a BTB/POZ domain, which is involved in ring canal formation and chromatin folding, and five WB repeats. SHKBP1 exists as two alternatively spliced isoforms and maps to human chromosome 19q13.2. Chromosome 19 consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin (Ig) superfamily members, including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG families and Fc receptors (FcRs).

## REFERENCES

1. Albagli, O., et al. 1995. The BTB/POZ domain: a new protein-protein interaction motif common to DNA- and Actin-binding proteins. *Cell Growth Differ.* 6: 1193-1198.
2. Oliver, D., et al. 2010. The chromosomal association/dissociation of the chromatin insulator protein Cp190 of *Drosophila melanogaster* is mediated by the BTB/POZ domain and two acidic regions. *BMC Cell Biol.* 11: 101.
3. Saba, I., et al. 2011. IL-7R-dependent survival and differentiation of early T-lineage progenitors is regulated by the BTB/POZ domain transcription factor Miz-1. *Blood* 117: 3370-3381.
4. Grillo, M., et al. 2011. Control of germline torso expression by the BTB/POZ domain protein pipsqueak is required for embryonic terminal patterning in *Drosophila*. *Genetics* 187: 513-521.
5. Greif, P.A., et al. 2011. Identification of recurring tumor-specific somatic mutations in acute myeloid leukemia by transcriptome sequencing. *Leukemia* 25: 821-827.

## CHROMOSOMAL LOCATION

Genetic locus: SHKBP1 (human) mapping to 19q13.2; Shkbp1 (mouse) mapping to 7 A3.

## SOURCE

SHKBP1 (B-7) is a mouse monoclonal antibody raised against amino acids 134-200 mapping within an internal region of SHKBP1 of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

SHKBP1 (B-7) is available conjugated to agarose (sc-390121 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390121 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390121 PE), fluorescein (sc-390121 FITC), Alexa Fluor® 488 (sc-390121 AF488), Alexa Fluor® 546 (sc-390121 AF546), Alexa Fluor® 594 (sc-390121 AF594) or Alexa Fluor® 647 (sc-390121 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-390121 AF680) or Alexa Fluor® 790 (sc-390121 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

## APPLICATIONS

SHKBP1 (B-7) is recommended for detection of SHKBP1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 SHKBP1 siRNA (h): sc-97631, SHKBP1 siRNA (m): sc-153452, SHKBP1 shRNA Plasmid (h): sc-97631-SH, SHKBP1 shRNA Plasmid (m): sc-153452-SH, SHKBP1 shRNA (h) Lentiviral Particles: sc-97631-V and SHKBP1 shRNA (m) Lentiviral Particles: sc-153452-V.

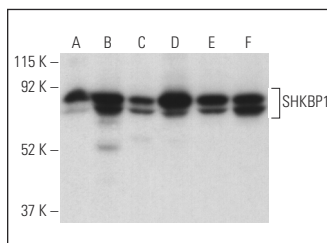
Molecular Weight of SHKBP1 isoforms 1/2: 76/33 kDa.

Positive Controls: SK-N-MC cell lysate: sc-2237, IMR-32 cell lysate: sc-2409 or H4 cell lysate: sc-2408.

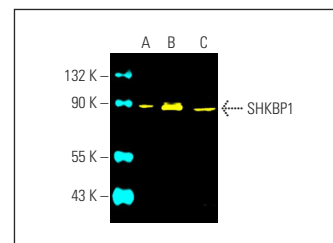
## RECOMMENDED SUPPORT REAGENTS

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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## DATA



SHKBP1 (B-7): sc-390121. Western blot analysis of SHKBP1 expression in IMR-32 (A), A549 (B), SK-N-MC (C), HEL 92.1.7 (D), H4 (E) and U-251-MG (F) whole cell lysates. Detection reagent used: m-IgG<sub>1</sub> BP-HRP: sc-525408.



SHKBP1 (B-7) Alexa Fluor® 488: sc-390121 AF488. Direct fluorescent western blot analysis of SHKBP1 expression in IMR-32 (A), HEL 92.1.7 (B) and Daudi (C) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Cruz Marker™ Molecular Weight Standards detected with Cruz Marker™ MW Tag-Alexa Fluor® 647: sc-516791.

## 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.

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