

Rabbit anti-Human 3BP2/SH3BP2 Polyclonal Antibody | anti-3BP2/SH3BP2 antibody

Anti-3BP2/SH3BP2 Antibody Picoband

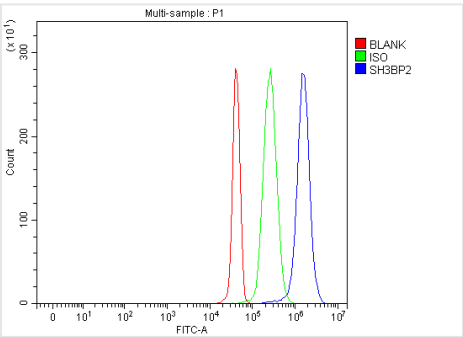
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127209	Rabbit	Human	Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

3BP2/SH3BP2; Polyclonal Antibody; Anti-3BP2/SH3BP2 Antibody Picoband; Ran-specific GTPase-activating protein; Ran-binding protein 1; RanBP1; RANBP1; anti-3BP2/SH3BP2 antibody

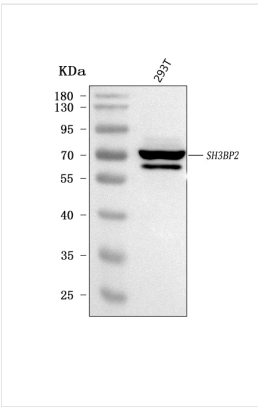
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Ubiquitously expressed. Present at highest levels in the brain, at high levels in the placenta and testis, at intermediate levels in the intestine, ovary, skeletal muscle and thymus and at lower levels in heart, kidney, liver, lung, pancreas, prostate and spleen. In the kidney, it is widely expressed in tubules, but sparsely expressed in the glomerulus (PubMed:24676636). Expression is significantly increased in renal biopsy specimens from idiopathic FSGS (PubMed:24676636). Overexpressed in many tumor types including breast, colorectal, endometrial, hepatic, kidney, lung, ovarian and pancreatic tumors.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-3BP2/SH3BP2 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Immunogen	E coli-derived human 3BP2/SH3BP2 recombinant protein (Position: R256-R561).
Subcellular Localization	Cytoskeleton. Nucleus. Cell cortex. Bleb
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Inhibits GTP exchange on Ran. Forms a Ran-GTP-RANBP1 trimeric complex. Increase GTP hydrolysis induced by the Ran GTPase activating protein RANGAP1. May act in an intracellular signaling pathway which may control the progression through the cell cycle by regulating the transport of protein and nucleic acids across the nuclear membrane.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of JK cells using anti-3BP2/SH3BP2 antibody (AAA127209).Overlay histogram showing JK cells stained with AAA127209 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-3BP2/SH3BP2 Antibody (AAA127209, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of 3BP2/SH3BP2 using anti-3BP2/SH3BP2 antibody (AAA127209).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human 293T whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-3BP2/SH3BP2 antigen affinity purified polyclonal antibody (#AAA127209) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for 3BP2/SH3BP2 at approximately 70 kDa. The expected band size for 3BP2/SH3BP2 is at 62,70 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-3BP2/SH3BP2 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-3BP2/SH3BP2 antibody	Primary Antibodies; Cell Biology; Cell Cycle; Cell Division; DNA/RNA; Epigenetics and Nuclear Signaling; Nuclear Import/Export; Protein Trafficking; RNA Processing; Signal Transduction; Spindle
References	1. Bell, S. M., Shaw, M., Jou, Y.-S., Myers, R. M., Knowles, M. A. Identification and characterization of the human homologue of SH3BP2, an SH3 binding domain protein within a common region of deletion at 4p16.3 involved in bladder cancer. Genomics 44: 163-170, 1997.2. Lo, B., Faiyaz-Ul-Haque, M., Kennedy, S., Aviv, R., Tsui, L.-C., Teebi, A. S. Novel mutation in the gene encoding c-Abl-binding protein SH3BP2 causes cherubism. Am. J. Med. Genet. 121A: 37-40, 2003.3. Ueki, Y., Lin, C.-Y., Senoo, M., Ebihara, T., Agata, N., Onji, M., Saheki, Y., Kawai, T., Mukherjee, P. M., Reichenberger, E., Olsen, B. R. Increased myeloid cell responses to M-CSF and RANKL cause bone loss and inflammation in SH3BP2 'cherubism' mice. Cell 128: 71-83, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GI #	170014703
NCBI GeneID	6452
NCBI Accession #	NP_003014
NCBI GenBank Nucleotide #	NM_003023
UniProt Accession #	P78314; O00500; O15373; P78315; A6NNC2; B2R5R6; B4DT04; D3DVR0; D6R919
Molecular Weight	68,129 Da
NCBI Official Full Name	SH3 domain-binding protein 2 isoform a
NCBI Official Synonym Full Names	SH3-domain binding protein 2

NCBI Official Symbol	SH3BP2
NCBI Official Synonym Symbols	3BP2; CRBM; CRPM; 3BP-2; RES4-23
NCBI Protein Information	SH3 domain-binding protein 2; Abl-SH3 binding protein 2; TNFAIP3 interacting protein 2
UniProt Protein Name	SH3 domain-binding protein 2
UniProt Gene Name	SH3BP2
UniProt Synonym Gene Names	3BP2; 3BP-2
UniProt Entry Name	3BP2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/3bp2-sh3bp2-antibody-flow-cytometry-western-blot-elisa/127209>