

Rabbit anti-Human STAP2 Polyclonal Antibody | anti-STAP2 antibody

Anti-STAP2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127524	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

STAP2; Polyclonal Antibody; Anti-STAP2 Antibody Picoband; Disintegrin and metalloproteinase domain-containing protein 2; ubiquitin specific peptidase 44; Ubiquitin carboxyl-terminal hydrolase 44; Deubiquitinating enzyme 44; Ubiquitin thioesterase 44; Ubiquitin-specific-processing protease 44; USP44; anti-STAP2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in testis. Expressed at high levels in T-cell acute lymphoblastic leukemia.
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-STAP2 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human STAP2 recombinant protein (Position: E95-Q392).
Subcellular Localization	Nucleus
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	Deubiquitinase that plays a key regulatory role in the spindle assembly checkpoint or mitotic checkpoint by preventing premature anaphase onset. Acts by specifically mediating deubiquitination of CDC20, a negative regulator of the anaphase promoting complex/cyclosome (APC/C). Deubiquitination of CDC20 leads to stabilize the MAD2L1-CDC20-APC/C ternary complex (also named mitotic checkpoint complex), thereby preventing premature activation of the APC/C. Promotes association of MAD2L1 with CDC20 and reinforces the spindle assembly checkpoint. Acts as a negative regulator of histone H2B (H2BK120ub1) ubiquitination.
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of A431 cells using anti-STAP2 antibody (AAA127524).Overlay histogram showing A431 cells stained with AAA127524 (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-STAP2 Antibody (AAA127524, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of STAP2 using anti-STAP2 antibody (AAA127524).STAP2 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-STAP2 Antibody (AAA127524) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of STAP2 using anti-STAP2 antibody (AAA127524).STAP2 was detected in a paraffin-embedded section of human glioblastoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-STAP2 Antibody (AAA127524) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of STAP2 using anti-STAP2 antibody (AAA127524).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 LNCAP 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-STAP2 antigen affinity purified polyclonal antibody (#AAA127524) 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 STAP2 at approximately 50-55 kDa. The expected band size for STAP2 is at 45 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-STAP2 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-STAP2 antibody	Primary Antibodies; Cancer; Cell Biology; Cytoskeleton/ECM; ECM Enzymes; Extracellular Matrix; Invasion/Microenvironment; Metalloprotease; Proteolysis/Ubiquitin; Proteolytic Enzymes; Signal Transduction
References	1. Minoguchi, M., Minoguchi, S., Aki, D., Joo, A., Yamamoto, T., Yumioka, T., Matsuda, T., Yoshimura, A. STAP-2/BKS, an adaptor/docking protein, modulates STAT3 activation in acute-phase response through its YXXQ motif. J. Biol. Chem. 278: 11182-11189, 2003.2. Mitchell, P. J., Sara, E. A., Crompton, M. R. A novel adaptor-like protein which is a substrate for the non-receptor tyrosine kinase, BRK. Oncogene 19: 4273-4282, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GI #	62243769
NCBI GeneID	55620
NCBI Accession #	NP_001013863.1
NCBI GenBank Nucleotide #	NM_001013841.1
UniProt Accession #	Q9UGK3; Q9NXI2; A6NKK3
Molecular Weight	49,649 Da
NCBI Official Full Name	signal-transducing adaptor protein 2 isoform 2
NCBI Official Synonym Full Names	signal transducing adaptor family member 2

NCBI Official Symbol	STAP2
NCBI Official Synonym Symbols	BKS
NCBI Protein Information	signal-transducing adaptor protein 2; BRK substrate; breast tumor kinase substrate; brk kinase substrate; signal-transducing adaptor protein-2
UniProt Protein Name	Signal-transducing adaptor protein 2
UniProt Gene Name	STAP2
UniProt Synonym Gene Names	BKS; STAP-2; BRK substrate
UniProt Entry Name	STAP2_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/stap2-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/127524>