

Rabbit anti-Human SERPINB8 Polyclonal Antibody | anti-SERPINB8 antibody

Anti-SERPINB8 Antibody Picoband

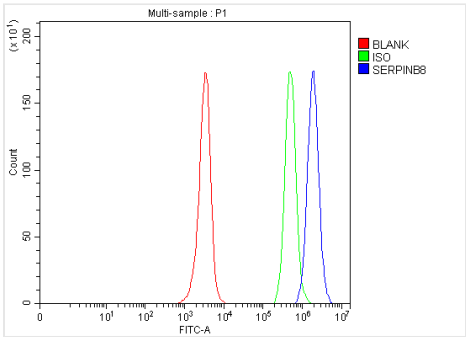
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127702	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

SERPINB8; Polyclonal Antibody; Anti-SERPINB8 Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-SERPINB8 antibody

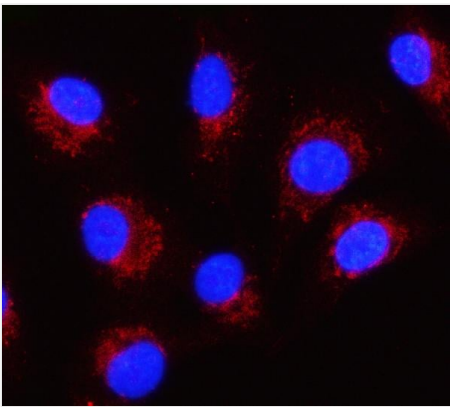
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-SERPINB8 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human SERPINB8 recombinant protein (Position: E173-K316). Human SERPINB8 shares 80.4% amino acid (aa) sequence identity with mouse SERPINB8.
Subcellular Localization	Cytoplasm, 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	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
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.



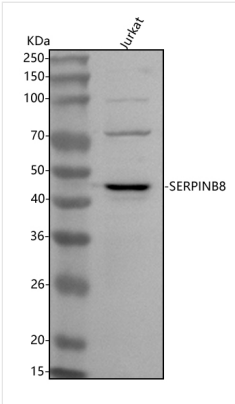
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of JK cells using anti-SERPINB8 antibody (AAA127702).Overlay histogram showing JK cells stained with AAA127702 (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-SERPINB8 Antibody (AAA127702, 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.



IF (Immunofluorescence)

Figure 2. IF analysis of SERPINB8 using anti-SERPINB8 antibody (AAA127702).SERPINB8 was detected in an immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-SERPINB8 Antibody (AAA127702) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluoescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of SERPINB8 using anti-SERPINB8 antibody (AAA127702).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 Jurkat 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-SERPINB8 antigen affinity purified polyclonal antibody (#AAA127702) 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 SERPINB8 at approximately 48 kDa. The expected band size for SERPINB8 is at 43 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SERPINB8 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-SERPINB8 antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins

References	1. Bartuski, A. J., Kamachi, Y., Schick, C., Overhauser, J., Silverman, G. A. Cytoplasmic antiproteinase 2 (PI8) and bomapin (PI10) map to the serpin cluster at 18q21.3. Genomics 43: 321-328, 1997. 2. Huber, R., Carrell, R. W. Implications of the three-dimensional structure of alpha 1-antitrypsin for structure and function of serpins. Biochemistry 28: 8951-8966, 1989. 3. Pigors, M., Sarig, O., Heinz, L., Plagnol, V., Fischer, J., Mohamad, J., Malchin, N., Rajpopat, S., Kharfi, M., Lestringant, G. G., Sprecher, E., Kelsell, D. P., Blaydon, D. C. Loss-of-function mutations in SERPINB8 linked to exfoliative ichthyosis with impaired mechanical stability of intercellular adhesions. Am. J. Hum. Genet. 99: 430-436, 2016.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	73623033
NCBI GeneID	5271
NCBI Accession #	NP_001027018.1
NCBI GenBank Nucleotide #	NM_001031848.1
UniProt Accession #	P50452; Q7Z2V6; Q8N178
Molecular Weight	374
NCBI Official Full Name	serpin B8 isoform b
NCBI Official Synonym Full Names	serpin peptidase inhibitor, clade B (ovalbumin), member 8
NCBI Official Symbol	SERPINB8
NCBI Official Synonym Symbols	PI8; CAP2
NCBI Protein Information	serpin B8; PI-8; peptidase inhibitor 8; cytoplasmic antiproteinase 2; protease inhibitor 8 (ovalbumin type); serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 8
UniProt Protein Name	Serpin B8
UniProt Gene Name	SERPINB8
UniProt Synonym Gene Names	PI8; CAP-2; CAP2; PI-8
UniProt Entry Name	SPB8_HUMAN

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