

Rabbit anti-Human SERPINB9 Polyclonal Antibody | anti-SERPINB9 antibody

Anti-SERPINB9 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127250	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

SERPINB9; Polyclonal Antibody; Anti-SERPINB9 Antibody Picoband; C-C motif chemokine receptor 10; C-C chemokine receptor type 10; C-C CKR-10; CC-CKR-10; CCR-10; G-protein coupled receptor 2; CCR10; GPR2; anti-SERPINB9 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed at high levels in adult testis, small intestine, fetal lung, fetal kidney. Weaker expression was observed in many other adult tissues including spleen, thymus, lymph node, Peyer patches, colon, heart, ovary, peripheral blood lymphocytes, thyroid and spinal cord. Also expressed by melanocytes, dermal fibroblasts, dermal microvascular endothelial cells. Also detected in T-cells and in skin-derived Langerhans cells.
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-SERPINB9 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human SERPINB9 recombinant protein (Position: D176-K313).
Subcellular Localization	Cell membrane, Multi-pass membrane protein
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	Receptor for chemokines SCYA27 and SCYA28. Subsequently transduces a signal by increasing the intracellular calcium ions level and stimulates chemotaxis in a pre-B cell line.
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 K562 cells using anti-SERPINB9 antibody (AAA127250). Overlay histogram showing K562 cells stained with AAA127250 (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-SERPINB9 Antibody (AAA127250, 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 SERPINB9 using anti-SERPINB9 antibody (AAA127250). SERPINB9 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-SERPINB9 Antibody (AAA127250) 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 fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)
Figure 1. Western blot analysis of SERPINB9 using anti-SERPINB9 antibody (AAA127250). 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 K562 whole cell lysates, Lane 2: human placenta tissue lysates, Lane 3: human Daudi whole cell lysates, Lane 4: human Raji 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-SERPINB9 antigen affinity purified polyclonal antibody (#AAA127250) at 0.25ug/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 SERPINB9 at approximately 38 kDa. The expected band size for SERPINB9 is at 38,42 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SERPINB9 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-SERPINB9 antibody	Primary Antibodies; Chemokines; Immunology; Innate Immunity
References	1. Barrie, M. B., Stout, H. W., Abougergi, M. S., Miller, B. C., Thiele, D. L. Antiviral cytokines induce hepatic expression of the granzyme B inhibitors, proteinase inhibitor 9 and serine proteinase inhibitor 6. J. Immun. 172: 6453-6459, 2004. 2. Bladergroen, B. A., Strik, M. C. M., Bovenschen, N., van Berkum, O., Scheffer, G. L., Meijer, C. J. L. M., Hack, C. E., Kummer, J. A. The granzyme B inhibitor, protease inhibitor 9, is mainly expressed by dendritic cells and at immune-privileged sites. J. Immun. 166: 3218-3225, 2001. 3. Eyre, H. J., Sun, J., Sutherland, G. R., Bird, P. Chromosomal mapping of the gene (PI9) encoding the Fixed serpin proteinase inhibitor 9 to 6p25 by fluorescence in situ hybridization. Genomics 37: 406-408, 1996.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758906
NCBI GeneID	5272
NCBI Accession #	NP_004146.1
NCBI GenBank Nucleotide #	NM_004155.5
UniProt Accession #	P50453; Q5TD03; B2RBW3
Molecular Weight	42,404 Da

NCBI Official Full Name	serpin B9
NCBI Official Synonym Full Names	serpin peptidase inhibitor, clade B (ovalbumin), member 9
NCBI Official Symbol	SERPINB9
NCBI Official Synonym Symbols	PI9; CAP3; PI-9; CAP-3
NCBI Protein Information	serpin B9; peptidase inhibitor 9; cytoplasmic antiproteinase 3; protease inhibitor 9 (ovalbumin type); serpin peptidase inhibitor, clade B, member 9; serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 9
UniProt Protein Name	Serpin B9
UniProt Gene Name	SERPINB9
UniProt Synonym Gene Names	PI9; CAP-3; CAP3; PI-9
UniProt Entry Name	SPB9_HUMAN

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