

Rabbit anti-Human PRSS8 Polyclonal Antibody | anti-PRSS8 antibody

Anti-PRSS8 Antibody Picoband

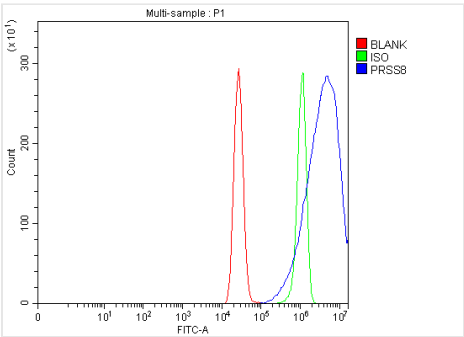
CATALOG # AAA127308	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Flow Cytometry, Functional Assay, Western Blot
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PRODUCT SYNONYMS

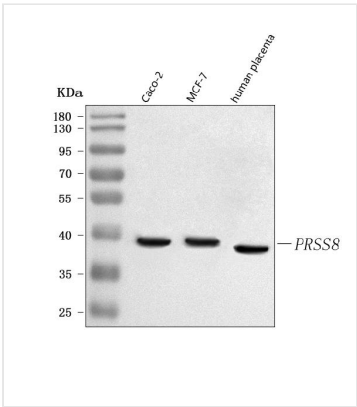
PRSS8; Polyclonal Antibody; Anti-PRSS8 Antibody Picoband; Serine protease HTRA3; dynein light chain Tctex-type 1; Dynein light chain Tctex-type 1; Protein CW-1; T-complex testis-specific protein 1 homolog; DYNLT1; TCTEL1; TCTEX-1; TCTEX1; anti-PRSS8 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in heart, placenta, skeletal muscle kidney, pancreas, spleen, prostate, testis, ovary, ileum and colon.Expressed in lung endothelial and smooth muscle cells (at protein level).
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-PRSS8 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human PRSS8 recombinant protein (Position: Q59-R322).
Subcellular Localization	Golgi apparatus. Cytoplasm. Cytoplasm, cytoskeleton, spindle. Localizes to mitotic spindles
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	Acts as one of several non-catalytic accessory components of the cytoplasmic dynein 1 complex that are thought to be involved in linking dynein to cargos and to adapter proteins that regulate dynein function. Cytoplasmic dynein 1 acts as a motor for the intracellular retrograde motility of vesicles and organelles along microtubules. Binds to transport cargos and is involved in apical cargo transport such as rhodopsin-bearing vesicles in polarized epithelia. May also be a accessory component of axonemal dynein.
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 MCF-7 cells using anti-PRSS8 antibody (AAA127308).Overlay histogram showing MCF-7 cells stained with AAA127308 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-PRSS8 Antibody (AAA127308, 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 PRSS8 using anti-PRSS8 antibody (AAA127308).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 Caco-2 whole cell lysates,Lane 2: human MCF-7 whole cell lysates,Lane 3: human placenta tissue 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-PRSS8 antigen affinity purified polyclonal antibody (#AAA127308) 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 PRSS8 at approximately 38 kDa. The expected band size for PRSS8 is at 36 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PRSS8 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-PRSS8 antibody	Primary Antibodies; Cytoskeleton; Cytoskeleton/ECM; Dynein; Host-Virus Interaction; Interspecies Interaction; Microbiology; Motor Proteins; Signal Transduction
References	1. Donaldson, S. H., Hirsh, A., Li, D. C., Holloway, G., Chao, J., Boucher, R. C., Gabriel, S. E. Regulation of the epithelial sodium channel by serine proteases in human airways. J. Biol. Chem. 277: 8338-8345, 2002.2. Yu, J. X., Chao, L., Chao, J. Prostatin is a novel human serine proteinase from seminal fluid: purification, tissue distribution, and localization in prostate gland. J. Biol. Chem. 269: 18843-18848, 1994. 3. Yu, J. X., Chao, L., Chao, J. Molecular cloning, tissue-specific expression, and cellular localization of human prostatin mRNA. J. Biol. Chem. 270: 13483-13489, 1995.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119572541
NCBI GeneID	5652
UniProt Accession #	Q16651; Q9UCA3
Molecular Weight	36,431 Da
NCBI Official Full Name	protease, serine, 8 (prostatin), isoform CRA_b, partial
NCBI Official Synonym Full Names	protease, serine, 8
NCBI Official Symbol	PRSS8
NCBI Official Synonym Symbols	CAP1; PROSTASIN
NCBI Protein Information	prostatin; serine protease 8; channel-activating protease 1

UniProt Protein Name	Prostasin
UniProt Gene Name	PRSS8
UniProt Synonym Gene Names	CAP1
UniProt Entry Name	PRSS8_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/prss8-antibody-flow-cytometry-western-blot-elisa/127308>