

Mouse Prostasin ELISA Kit | PRSS8 elisa kit

Mouse Prostasin PicoKine ELISA Kit

CATALOG #
AAA45848

REACTIVITY
Mouse

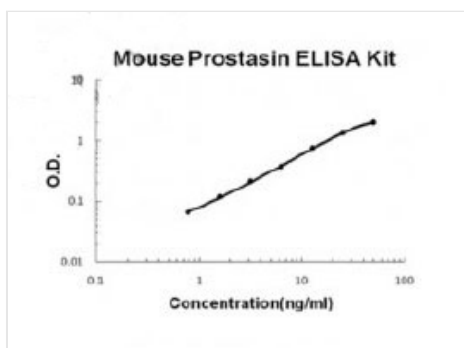
PRODUCT SYNONYMS

Prostasin; Mouse Prostasin PicoKine ELISA Kit; protease; serine; 8; 2410039E18Rik; AI313909; C79772; CAP1; Channel Activating Protease 1; mCAP1; Prostasin heavy chain; Prss8; PRSS8_HUMAN; Serine protease 8; PRSS8 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant mouse Prostasin
Sequence Length	342
Samples	Cell culture supernates, serum, plasma (heparin, EDTA) and urine
Assay Type	Sandwich
Detection Range	0.78ng/ml-50ng/ml
Sensitivity	< 50pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PRSS8 elisa kit	Principle of the assay: mouse Prostasin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for Prostasin has been precoated onto 96-well plates. Standards(NSO, A30-Q289) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Prostasin is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the mouse Prostasin amount of sample captured in plate. Background: Prostasin is a protein that in humans is encoded by the PRSS8 gene. It is a single-copy gene and mapped to 16p11.2. Prostasin is likely to be the more physiologically relevant protease. This gene encodes a trypsinogen, which is a member of the trypsin family of serine proteases. Coexpression of Prostasin with either Xenopus or rat ENaC in Xenopus oocytes resulted in a 60% to 80% increase in amiloride-sensitive sodium currents, and that the addition of aprotinin, a serine protease inhibitor, completely prevented this activation. This enzyme is highly expressed in prostate epithelia and is one of several proteolytic enzymes found in seminal fluid. The proprotein is cleaved to produce a light chain and a heavy chain which are associated by a disulfide bond. It is active on peptide linkages involving the carboxyl group of lysine or arginine.
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	13633203
NCBI GeneID	76560
UniProt Accession #	Q9ESD1
Molecular Weight	36,729 Da
NCBI Official Full Name	Prostasin
NCBI Official Synonym Full Names	protease, serine 8 (prostasin)
NCBI Official Symbol	Prss8
NCBI Official Synonym Symbols	fr; CAP1; mCAP1; C79772; AI313909; 2410039E18Rik
NCBI Protein Information	prostasin; serine protease 8; channel activating protease 1; channel-activating protease 1; protease, serine, 8 (prostasin)
UniProt Protein Name	Prostasin
UniProt Gene Name	Prss8
UniProt Synonym Gene Names	Cap1; CAP1
UniProt Entry Name	PRSS8_MOUSE

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.