

Human Channel Activating Protease 1 (CAP1) ELISA Kit | CAP1 elisa kit

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CATALOG #
AAA187045

REACTIVITY
Human

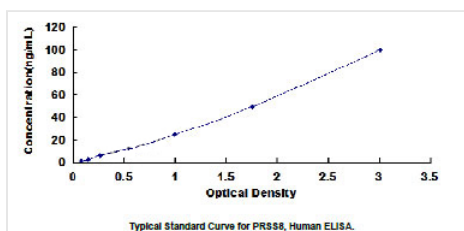
PRODUCT SYNONYMS

Channel Activating Protease 1 (CAP1); Human Channel Activating Protease 1 (CAP1) ELISA Kit; PRSS8; Proctasin; Protease; Serine 8; CAP1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of PRSS8. No significant cross-reactivity or interference between PRSS8 and analogues was observed.
Sequence Length	289
Samples	Serum, plasma, urine and other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	1.56-100ng/mL
Sensitivity	< 0.62ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PRSS8 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level PRSS8 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CAP1 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of PRSS8 in human serum, plasma, urine and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to PRSS8. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to PRSS8. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain PRSS8, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of PRSS8 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
References	Prostate cancer-associated urinary proteomes differ before and after prostatectomy; Ther Adv Med Oncol; 2022 Oct 27;14:17588359221131532.; PMID: 36324734; Yan Feng; Department of Pharmacology, College of Pharmacy, Harbin Medical University, Harbin, China.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119572541
NCBI GeneID	5652
UniProt Accession #	Q16651; Q9UCA3; B4DWP2
Molecular Weight	30,519 Da
NCBI Official Full Name	protease, serine, 8 (prostasin), 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	prostasin
UniProt Protein Name	Prostasin
UniProt Gene Name	PRSS8
UniProt Synonym Gene Names	CAP1

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/channel-activating-protease-1-cap1/187045>