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PRSS8 ELISA Kit





Overview

Quantity:	96 tests
Target:	PRSS8
Binding Specificity:	AA 30-289
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	0.78-50 ng/mL
Minimum Detection Limit:	0.78 ng/mL
Application:	ELISA

Product Details

antitative Detection of Mouse Prostasin
neparin), Plasma (EDTA), Urine
other relevant proteins.

Product Details

Troddot Details	
Sensitivity:	<50pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in th
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl
Target Details	
Target:	PRSS8
Alternative Name:	PRSS8 (PRSS8 Products)
Background:	Protein Function: Possesses a trypsin-like cleavage specificity with a preference for poly-basic
	substrates (By similarity). Stimulates epithelial sodium channel (ENaC) activity through
	activating cleavage of the gamma subunits (SCNN1G)
	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.
	Synonyms: Prostasin,3.4.21,Channel-activating protease 1,CAP1,Serine protease 8,Prostasin
	light chain,Prostasin heavy chain,Prss8,Cap1,
	Full Gene Name: Prostasin
	Cellular Localisation: Cell membrane, Single-pass membrane protein.
Gene ID:	76560
JniProt:	Q9ESD1
Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
	assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Belongs to the peptidase S1 family.

Application Details

Plate:	Pre-coated
Protocol:	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.
Assay Procedure:	Aliquot 0.1 mL per well of the 50 ng/mL, 25 ng/mL, 12.5 ng/mL, 6.25 ng/mL, 3.12 ng/mL,
	1.56 ng/mL, 0.78 ng/mL mouse Prostasin standard solutions into the precoated 96-well plate.
	Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each
	properly diluted sample of mouse cell culture supernates, serum, plasma(heparin, EDTA) or
	urine to each empty well. See "Sample Dilution Guideline" above for details. We recommend that
	each mouse Prostasin standard solution and each sample is measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(ng/ml): 1.45, Standard deviation: 0.08, CV(%): 5.6
	• Sample 2: n=16, Mean(ng/ml): 25.2, Standard deviation: 1.06, CV(%): 4.2
	• Sample 3: n=16, Mean(ng/ml): 38.1, Standard deviation: 2.02, CV(%): 5.3,
	• Sample 1: n=24, Mean(ng/ml): 2.64, Standard deviation: 0.19, CV(%): 7.2
	 Sample 2: n=24, Mean(ng/ml): 18.5, Standard deviation: 1.18, CV(%): 6.4 Sample 3: n=24, Mean(ng/ml): 40.7, Standard deviation: 3.5, CV(%): 8.6
	• Sample 3. 11–24, Mean(ng/1111). 40.7, Standard deviation. 3.3, CV(%). 6.0
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months

ELISA

Image 1. Mouse Prostasin PicoKine ELISA Kit standard curve