

Human Brain-Specific Serine Protease 4 (PRSS22) ELISA Kit | PRSS22 elisa kit

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CATALOG #
AAA331289

REACTIVITY
Human

PRODUCT SYNONYMS

Brain-Specific Serine Protease 4 (PRSS22); Human Brain-Specific Serine Protease 4 (PRSS22) ELISA Kit; PRSS22; BSSP-4; MGC9599; SP001LA; hBSSP-4; brain-specific serine protease 4; prosemín; protease; serine S1 family member 22; tryptase epsilon; PRSS22 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Brain-specific serine protease 4 (PRSS22) ELISA Kit has high sensitivity and excellent specificity for detection of Human PRSS22. No significant cross-reactivity or interference between Human PRSS22 and analogues was observed.
Sequence Length	317
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Brain-specific serine protease 4 (PRSS22) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PRSS22 elisa kit	Description: This Human Brain-specific serine protease 4 (PRSS22) ELISA Kit employs a two-site sandwich ELISA to quantitate PRSS22 in samples. An antibody specific for PRSS22 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PRSS22 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRSS22 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PRSS22 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: The deduced 317-amino acid protein contains an N-terminal hydrophobic leader peptide, followed by a propeptide sequence and the serine protease domain, which has the catalytic triad of histidine, aspartic acid, and serine. PRSS22 also has 2 cysteines that form a disulfide bond linking the propeptide and the catalytic domain following proteolytic activation, and it has an N-glycosylation site. PRSS22 lacks a number of residues required by other tryptases to form tetramers. RNA dot blot analysis detected abundant PRSS22 expression in adult esophagus and trachea, with lower levels in adult placenta, pancreas, prostate, and thyroid, and in fetal kidney and lung. There was little to no expression in other tissues examined. Enzymatically active PRSS22 was secreted from a human epithelial cell line and from transfected COS-7 cells.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	11545839
NCBI GeneID	64063
NCBI Accession #	NP_071402.1
NCBI GenBank Nucleotide #	NP_071402.1
UniProt Accession #	Q9GZN4
NCBI Official Full Name	brain-specific serine protease 4
NCBI Official Synonym Full Names	serine protease 22
NCBI Official Symbol	PRSS22
NCBI Official Synonym Symbols	BSSP-4; SP001LA; hBSSP-4
NCBI Protein Information	brain-specific serine protease 4
UniProt Protein Name	Brain-specific serine protease 4
UniProt Gene Name	PRSS22
UniProt Synonym Gene Names	BSSP4; PRSS26; SP001LA; UNQ302/PRO343; BSSP-4
UniProt Entry Name	BSSP4_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/human-elisa-kits/brain-specific-serine-protease-4-prss22/331289>