

Human Testisin (PRSS21) ELISA Kit

Catalog No: #EK8100



Package Size: #EK8100-1 48T #EK8100-2 96T

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Description

Product Name	Human Testisin (PRSS21) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	ESP-1; ESP1; TEST1; TESTISIN; serine protease from eosinophils testisin
Accession No.	Q9Y6M0
Uniprot	Q9Y6M0
GeneID	10942;
Storage	<p>The stability of ELISA 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.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PRSS21 in samples. An antibody specific for PRSS21 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPRSS21 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRSS21 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 PRSS21 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**PRSS21 encodes a cell-surface anchored serine protease, which is a member of the trypsin family of serine proteases. It is predicted to be active on peptide linkages involving the carboxyl group of lysine or arginine. The protein localizes to the cytoplasm and the plasma membrane of premeiotic testicular germ cells and it may be involved in progression of testicular tumors of germ cell origin. The deduced 314-amino acid ESP1 precursor protein has a calculated molecular mass of 33.1 kD, and the 273-amino acid active form has a calculated molecular mass of 30.6 kD.

ESP1 contains an N-terminal signal peptide, a propeptide, an active site catalytic triad of conserved his, asp, and ser residues, and a hydrophobic C terminus, which suggests that ESP1 is a membrane-type serine protease.

Note: This product is for in vitro research use only