

Human Transmembrane protease serine 4 ELISA Kit | TMPRSS4 elisa kit

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CATALOG #
AAA100956

REACTIVITY
Human

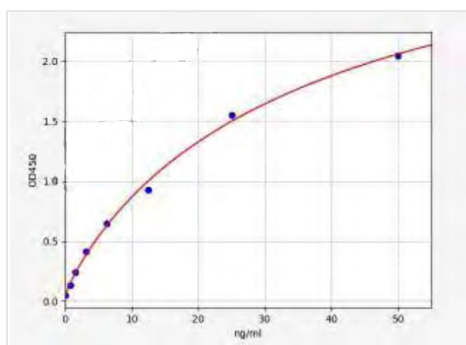
PRODUCT SYNONYMS

Transmembrane protease serine 4; Human Transmembrane protease serine 4 ELISA Kit; TMPRSS4/Transmembrane protease serine 4/Channel-activating protease 2/CAPH2/Membrane-type serine protease 2/MT-SP2; TMPRSS4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize TMPRSS4, no obvious cross reaction with other analogues
Sequence Length	435
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	0.781-50ng/ml
Sensitivity	0.469ng/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TMPRSS4 elisa kit	Background: Transmembrane protease serine 4 (TMPRSS4) is a type-II transmembrane glycoprotein that functions as a serine protease. The extracellular region of TMPRSS4 harbors a serine protease catalytic domain and a scavenger receptor domain, which is implicated in lipid binding. TMPRSS4 activity has been implicated in viral infections through its ability to regulate the proteolytic processing of the influenza virus hemagglutinin protein and SARS-CoV-2 spike protein. TMPRSS4 is also implicated in cancer cell metastasis through the cleavage of urokinase-type plasminogen activator and activation of intracellular signaling cascades that promote cell migration. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti TMPRSS4 antibody was pre-coated onto the 96-well plate. The biotin conjugated anti TMPRSS4 antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with TMPRSS4 conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of TMPRSS4 in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	21703806
NCBI GeneID	214523
NCBI Accession #	NP_663378.1
NCBI GenBank Nucleotide #	NM_145403.2
Molecular Weight	47,496 Da
NCBI Official Full Name	transmembrane protease serine 4
NCBI Official Synonym Full Names	transmembrane protease, serine 4
NCBI Official Symbol	Tmprss4
NCBI Official Synonym Symbols	mCAP2
NCBI Protein Information	transmembrane protease serine 4
UniProt Protein Name	Transmembrane protease serine 4
UniProt Gene Name	Tmprss4
UniProt Synonym Gene Names	Cap2; mCAP2
UniProt Entry Name	TMPS4_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.

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Online datasheet: <https://stage.aaabiotech.com/tmpRSS4-human-elisa-kits/transmembrane-protease-serine-4/100956>