

Human TAFI/CPB2 ELISA Kit | CPB2 elisa kit

Human TAFI/CPB2 PicoKine ELISA Kit

CATALOG #
AAA11676

REACTIVITY
Human

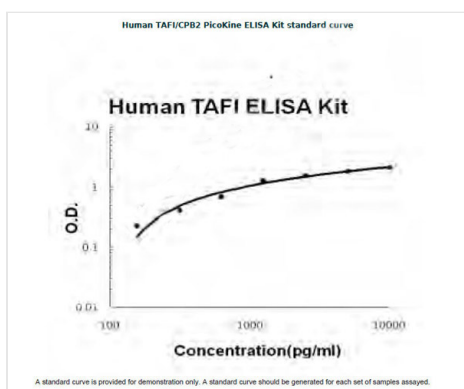
PRODUCT SYNONYMS

TAFI/CPB2; Human TAFI/CPB2 PicoKine ELISA Kit; Carboxypeptidase U; CarboxypeptidaseU; CarboxypeptidaseB2; CP B2; CPB 2; CPB2; CPU; PCPB; Plasma carboxypeptidase B; Plasma carboxypeptidase B2; Procarboxypeptidase B; Procarboxypeptidase R; Procarboxypeptidase U; TAFI; Q96IY4 ; Carboxypeptidase B2; CPB2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human CPB2
Sequence Length	386
Samples	Cell culture supernatants, cell lysates, serum and plasma (heparin, edta)
Detection Range	156 pg/ml - 10,000 pg/ml
Sensitivity	<15 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice).

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CPB2 elisa kit	Principle of the Assay: The Picokine™ Human CPB2 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human CPB2 with a 96-well strip plate that is pre-coated with antibody specific for CPB2. The detection antibody is a biotinylated antibody specific for CPB2. The kit contains recombinant Human CPB2 with immunogen: Expression system for standard: NS0; Immunogen sequence: M1-V423. The kit is analytically validated with ready-to-use reagents. To measure Human CPB2, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human CPB2 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human CPB2 in the sample. Background/Introduction: Carboxypeptidase B2 (CPB2), also known as carboxypeptidase U (CPU), plasma carboxypeptidase B (pCPB) or thrombin-activatable fibrinolysis inhibitor (TAFI), is an enzyme that, in humans, is encoded by the gene CPB2. CPB2 is synthesized by the liver and circulates in the plasma as a plasminogen-bound zymogen. When it is activated by proteolysis at residue Arg92 by the thrombin/thrombomodulin complex, CPB2 exhibits carboxypeptidase activity. Activated CPB2 reduces fibrinolysis by removing the fibrin C-terminal residues that are important for the binding and activation of plasminogen.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	513126877
NCBI GeneID	1361
NCBI Accession #	NP_001265470.1
NCBI GenBank Nucleotide #	NM_001278541.1
UniProt Accession #	Q96IY4; Q15114; Q5T9K1; Q5T9K2; Q9P2Y6; A8K464
Molecular Weight	40,922 Da
NCBI Official Full Name	carboxypeptidase B2 isoform 2 preproprotein
NCBI Official Synonym Full Names	carboxypeptidase B2
NCBI Official Symbol	CPB2
NCBI Official Synonym Symbols	CPU; PCPB; TAFI
NCBI Protein Information	carboxypeptidase B2
UniProt Protein Name	Carboxypeptidase B2
UniProt Gene Name	CPB2
UniProt Synonym Gene Names	CPU; pCPB; TAFI
UniProt Entry Name	CBPB2_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://www.aaabiotech.com/human-elisa-kits/tafi-cpb2/11676>