

Human Seprase/FAP ELISA Kit | FAP elisa kit

Human Seprase/FAP PicoKine ELISA Kit

CATALOG #
AAA45896

REACTIVITY
Human

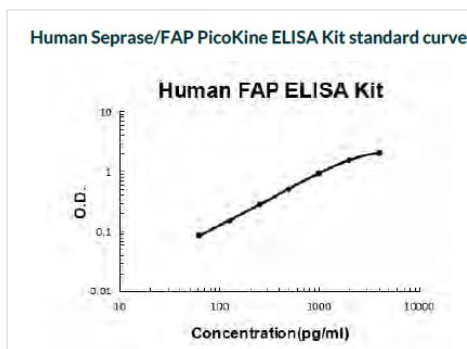
PRODUCT SYNONYMS

Seprase/FAP; Human Seprase/FAP PicoKine ELISA Kit; Seprase; fibroblast activation protein; alpha; 170 kDa melanoma membrane bound gelatinase; 170 kDa melanoma membrane-bound gelatinase; DPPIV; FAP; FAPA; Fibroblast activation protein alpha; Integral membrane serine protease; SEPR_HUMAN; FAP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human FAP
Sequence Length	760
Samples	Cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA)
Detection Range	62.5 pg/ml - 4,000 pg/ml
Sensitivity	<10 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 between 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 FAP elisa kit	Background: FAP (Fibroblast Activation Protein, Alpha) also known as FAPA or SEPRASE, is an inducible cell surface glycoprotein that was originally identified in cultured fibroblasts using monoclonal antibody F19. The protein encoded by this gene is a homodimeric integral membrane gelatinase belonging to the serine protease family. The FAP gene is mapped on 2q24.2. FAP is most closely related to DPPIV and they share about 50% of their amino acids. FAP is catalytically active as a 170kD dimer and has dipeptidase and gelatinase activity. Its gelatinase activity requires a glycine in P2 position.FAPalpha shows 48% amino acid identity with dipeptidyl peptidase IV and 30% identity with DPP4-related protein. Northern blot analysis detected a 2.8-kb FAP-alpha mRNA in fibroblasts. Depletion of FAP-expressing cells, which made up only 2% of all tumor cells in established Lewis lung carcinomas, caused rapid hypoxic necrosis of both cancer and stromal cells in immunogenic tumors by a process involving interferon-gamma and tumor necrosis factor-alpha. Principle of the Assay: The Picokine™ Human FAP Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human FAP with a 96-well strip plate that is pre-coated with antibody specific for FAP. The detection antibody is a biotinylated antibody specific for FAP. The capture antibody is monoclonal antibody from mouse and the detection antibody is polyclonal antibody from goat. The kit includes Human FAP protein as standards. To measure Human FAP, 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 FAP 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 FAP in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	292495099
NCBI GeneID	2191
UniProt Accession #	Q12884; O00199; Q53TP5; Q86Z29; Q99998; Q9UID4
Molecular Weight	26,954 Da
NCBI Official Full Name	Seprase
NCBI Official Synonym Full Names	fibroblast activation protein, alpha
NCBI Official Symbol	FAP
NCBI Official Synonym Symbols	FAPA; DPPIV
NCBI Protein Information	seprase; integral membrane serine protease; 170 kDa melanoma membrane-bound gelatinase
UniProt Protein Name	Prolyl endopeptidase FAP
UniProt Gene Name	FAP
UniProt Entry Name	SEPR_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/seprase-fap/45896>