

Datasheet for KOA0627**Human Seprase - FAP ELISA Kit****Overview**

Description:	Human Seprase/FAP AccuSignal ELISA Kit - KOA0627
Item No.:	KOA0627
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	62.5 pg/ml - 4000 pg/ml

Product Details

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. FAP-alpha 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.
Synonyms:	170 kDa melanoma membrane-bound gelatinase, FAP, Fibroblast activation protein alpha, Integral membrane serine protease, SEPR_HUMAN, Seprase
Detection Kit Type:	ELISA Kit
Detection Range:	62.5 pg/ml - 4000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	FAP
Reactivity:	Human

Immunogen:	Expression system for standard: NSO; Immunogen sequence: L26-D760
Purity/Specificity:	Natural and recombinant human Seprase. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - Q12884 • NCBI - NP_001278736.1 • GenelD - 2191 • KOA0627 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 4000pg/ml, 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml human Seprase standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma (heparin, EDTA) to each empty well. It is recommended that each human Seprase standard solution and each sample be measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	62.5pg/ml-4000pg/ml
Other:	DOE: 2-8° C - 08/02/2023 -20° C - 01/31/2024

Formulation

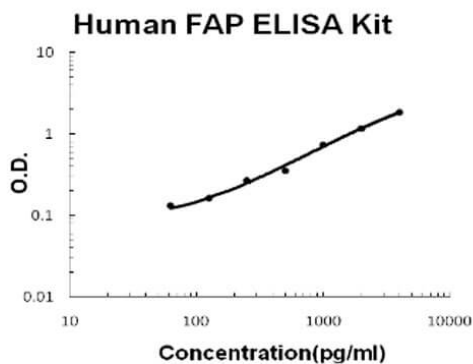
Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Expiration: See kit insert for complete instructions.

Images



ELISA

Human Seprase/FAP AccuSignal ELISA Kit standard curve.
Assay Range: 62.5pg/ml-4000pg/ml. Sensitivity: <10pg/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.