Active Recombinant Monkeys FAP Protein, His-tagged, Alexa Fluor 647 conjugated

Cat. No. FAP-370CAF647 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Alexa Fluor 647 conjugated recombinant Cynomolgus FAP (XP_005573377.1) (Arg30-Asp760) was expressed with a polyhistidine tag at the N-terminus.
Species	Monkey
Source	HEK293
ProteinLength	Arg30-Asp760 750
Description	Seprase, also known as 170 kDa melanoma membrane-bound gelatinase , Fibroblast activation protein alpha, Integral membrane serine protease and FAP, is a single-pass type II membrane protein which belongs to the peptidase S9B family. Seprase/FAP is found in cell surface lamellipodia, invadopodia and on shed vesicles. Seprase/FAP appears to act as a proteolytically active 170-kDa dimer, consisting of two 97-kDa subunits. It is a member of the group type II integral serine proteases, which includes dipeptidyl peptidase IV (DPPIV/CD26) and related type II transmembrane prolyl serine peptidases, which exert their mechanisms of action on the cell surface. Seprase/FAP col centigradealized with DPP4 in invadopodia and lamellipodia of migratory activated endothelial cells in collagenous matrix. Seprase/FAP col centigradealized with DPP4 on endothelial cells of capillary-like microvessels but not large vessels within invasive breast ductal carcinoma. DPP4 and seprase exhibit multiple functions due to their abilities to form complexes with each other and to interact with other membrane-ass centigradeiated molecules. In ass

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	centigradeiation with DPP4, Seprase/FAP is involved in the pericellular proteolysis of the extracellular matrix (ECM), the migration and invasion of endothelial cells into the ECM. Seprase/FAP has a dual function in tumour progression. The proteolytic activity of Seprase has been shown to promote cell invasiveness towards the ECM and also to support tumour growth and proliferation. Seprase/FAP may have a role in tissue remodeling during development and wound healing, and may contribute to invasiveness in malignant cancers.
Form	Lyophilized
Bio-activity	Measured by its ability to convert the substrate benzyloxycarbonylGlyPro7amido 4methylcoumarin (ZGPAMC) to ZGlyPro and 7amino4methylcoumarin (AMC). The specific activity is > 600 pmol/min/ µg.
Molecular Mass	87 kDa
N-terminal Sequence Analysis	His
Endotoxin	< 1.0 EU/ µg protein as determined by the LAL method.
Purity	> 90 % as determined by SDS-PAGE
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 647 via amines Excitation = 650 nm Emission = 668 nm
Storage	Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

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Storage Buffer	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
Conjugation	Alexa Fluor 647

GENE INFORMATION

Gene Name	FAP fibroblast activation protein alpha [Macaca mulatta (Rhesus monkey)]
Official Symbol	FAP
Synonyms	FAP; fibroblast activation protein alpha; prolyl endopeptidase FAP; EC 3.4.14.5; EC 3.4.21.26
Gene ID	701541
mRNA Refseq	XM_015110238
Protein Refseq	XP_014965724

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