

Active Recombinant Monkeys FAP Protein, His-tagged, Alexa Fluor 488 conjugated

Cat. No. FAP-370CAF488 Lot. No. (See product label)

SPECIFICATION

Product Overview

Alexa Fluor 488 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 centrifugealized with DPP4 in invadopodia and lamellipodia of migratory activated endothelial cells in collagenous matrix. Seprase/FAP col centrifugealized 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-associated centrifugealized molecules. In ass

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 4met hylcoumarin (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 488 via amines Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 488

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA