Datasheet for ABIN7535281

Prolyl Endopeptidase FAP Protein (FAP) (His tag)

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Overview

Quantity:	100 µg
Target:	Prolyl Endopeptidase FAP (FAP)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Prolyl Endopeptidase FAP protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human Prolyl endopeptidase FAP Protein
Sequence:	LRPSRVHNSE ENTMRALTLK DILNGTFSYK TFFPNWISGQ EYLHQSADNN IVLYNIETGQ SYTILSNRTM KSVNASNYGL SPDRQFVYLE SDYSKLWRYS YTATYYIYDL SNGEFVRGNE LPRPIQYLCW SPVGSKLAYV YQNNIYLKQR PGDPPFQITF NGRENKIFNG IPDWVYEEEM LATKYALWWS PNGKFLAYAE FNDTDIPVIA YSYYGDEQYP RTINIPYPKA GAKNPVVRIF IIDTTYPAYV GPQEVPVPAM IASSDYYFSW LTWVTDERVC LQWLKRVQNV SVLSICDFRE DWQTWDCPKT QEHIEESRTG WAGGFFVSTP VFSYDAISYY KIFSDKDGYK HIHYIKDTVE NAIQITSGKW EAINIFRVTQ DSLFYSSNEF EEYPGRRNIY RISIGSYPPS KKCVTCHLRK ERCQYYTASF SDYAKYYALV CYGPGIPIST LHDGRTDQEI KILEENKELE NALKNIQLPK EEIKKLEVDE ITLWYKMILP PQFDRSKKYP LLIQVYGGPC SQSVRSVFAV NWISYLASKE GMVIALVDGR GTAFQGDKLL YAVYRKLGVY EVEDQITAVR KFIEMGFIDE KRIAIWGWSY GGYVSSLALA SGTGLFKCGI AVAPVSSWEY YASVYTERFM GLPTKDDNLE HYKNSTVMAR AEYFRNVDYL LIHGTADDNV HFQNSAQIAK ALVNAQVDFQ AMWYSDQNHG LSGLSTNHLY

Product Details

	THMTHFLKQC FSLSD
Specificity:	Leu26-Asp760
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 μm filtered
Endotoxin Level:	<0.1EU/μg
Biological Activity Comment:	1.Measured by its binding ability in a functional ELISA. Immobilized Human FAP at 1 μg/mL (100 μL/well) can bind FAP Rabbit mAb with a linear range of 0.03-3.94 ng/mL.|2.Measured by its ability to convert the substrate benzyloxycarbonyl-Gly-Pro-7-amido-4-methylcoumarin (Z-GP-AMC) to Z-Gly-Pro and 7-amino-4-methylcoumarin (AMC).The specific activity is >2863 pmol/min/μg.|3.Measured by its ability to hydrolyze the substrate Z-Gly-Pro-AMC to Z-Gly-Pro and AMC. The specific activity is >3000 pmol/min/μg.

Target Details

Target:	Prolyl Endopeptidase FAP (FAP)
Alternative Name:	Prolyl endopeptidase FAP (FAP Products)
Background:	Description: FAP (also known as seprase) is a Type II transmembrane serine protease,which belongs to thepeptidase S9B family. Seprase / FAP is found in cell surface lamellipodia, invadopodia and on shed vesicles. Seprase / FAP appears to act as a proteolytically active 17- 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 colocalized with DPP4 in invadopodia and lamellipodia of migratory activated endothelial cells in collagenous matrix. Seprase / FAP colocalized 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 molecules. In association 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. Name: DPPIV, FAPA, FAPalpha, SIMP,FAP, DPPIV, prolyl endopeptidase

Target Details

	FAP,FAPA,FAPalpha,SIMP
Gene ID:	2191
UniProt:	Q12884

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.41 mg/mL
Buffer:	Supplied as a 0.22 µm filtered solution in PBS, pH 7.4.
Storage:	-80 °C
Storage Comment:	This product is stable at ≤ -70°C for up to 1 year from the date of receipt.|For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

