

Active Recombinant Mouse Fap protein, His-tagged

Cat. No. FAP-584M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Fap fused with His tag was expressed in HEK293F.
Species	Mouse
Source	HEK293
Description	This gene belongs to the serine protease family. The encoded protein is an inducible cell-surface bound glycoprotein specifically expressed in tumor-associated fibroblasts and pericytes of epithelial tumors and has protease and gelatinase activity. The protein plays a role in remodeling of the extracellular matrix (ECM) and may affect tumorigenesis and tissue repair. Alternately spliced transcript variants of this gene are described in the literature (PMID 9139873), but the full-length sequence of these variants is not available.
Form	Lyophilized from sterile 25mM Tris, 250mM NaCl, pH 8.2
Bio-activity	The specific activity(kcat)is >1000 pmol/min/μg. kcat/Km>0.5×10E4 (M ⁻¹ s ⁻¹) Measured by its ability to convert the substrate ZGPAMC to ZGlyPro and AMC.
Molecular Mass	~90 kDa
AA Sequence	HHHHHHHHHHENLYFQLRPSRVYKPEGNTKRALTLKDILNGTFSYKTYFPNWISEQE YLNQSEDDNIVFYNIETR ESYIILSNSTMKSVNATDYG LSPDRQFVYLESDYSKLWR YSYTATYYIYDLQNGEFVIRGYELPRPIQYLCWSPVG SKLAYVYQNNIYLKQRPGDP PFQITYTGRENRI FNGIPDWVYEEEMLATKYALWWSPDGKFLAYVEFNDSDIPII AYS

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YYGDGQYPRTINIPYKAGAKNPVVRVFIVDTTYPHHVGPMEVPVPEMIASSDYFYS
 WLTWVSSERVCLQWL KRVQNVSVLSICDFREDWHAWECPKNQEHVEESRTGWA
 GGFFVSTPAFSQDATSYKIFSDKDGYKHIHIKDTV ENAIQITSGKWEAIYIFRVTQD
 SLFYSSNEFEGYPGRRNIYRISIGNSPPSKKCVTCHLRKERCQYYTASFYSYKA KYYA
 LVCYGPGLPISTLHDGRTDQEIQVLEENKELENSLRNIQLPKVEIKKLDGGLTFWYK
 MILPPQFDRSKKY PLLIQVYGGPCSQSVKSVFAVNWITYLASKEGIVIALVDGRGTAF
 QGDKFLHAVYRKLGVYEVEDQLTAVRKFIE MGFIDEERIAIWGWSYGGYVSSLALAS
 GTGLFKCGIAVAPVSSWEYYASIYSERFMGLPTKDDNLEHYKNSTVMA RAEYFRNV
 DYLLIHGTADDNVHFQNSAQIAKALVNAQVDFQAMWYSDQNHGISSGRSQNHLYTH
 MTHFLKQCFSL SD

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method

Purity >95%, by SDS-PAGE under reducing conditions

Storage 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.

GENE INFORMATION

Gene Name [Fap fibroblast activation protein \[Mus musculus \]](#)

Official Symbol [Fap](#)

Synonyms FAP; fibroblast activation protein; seprase; integral membrane serine protease; fibroblast activation protein alpha;

Gene ID [14089](#)

mRNA Refseq [NM_007986](#)

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Protein Refseq	NP_032012
MIM	
UniProt ID	P97321
Chromosome Location	2 C1.3; 2 35.85 cM
Function	endopeptidase activity; hydrolase activity; peptidase activity; peptidase activity; protease binding; serine-type endopeptidase activity; serine-type peptidase activity;

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