

## Active Recombinant Mouse Fap protein, His-tagged

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b> | Recombinant Mouse Fap fused with His tag was expressed in HEK293F.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Lyophilized from sterile 25mM Tris, 250mM NaCl, pH 8.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Bio-activity</b>     | The specific activity(kcat)is >1000 pmol/min/μg. kcat/Km>0.5×10E4 (M <sup>-1</sup> s <sup>-1</sup> -1)Measured by its ability to convert the substrate ZGPAMC to ZGlyPro and AMC.                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | ~90 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | HHHHHHHHHHENLYFQLRPSRVYKPEGNTKRALTLKDILNGTFSYKTYFPNWISEQE<br>YLHQSEDDNIVFYNIETR ESYILSNSTMKSVNATDYG LSPDRQFVYLESDYSKLWR<br>YSYTATYYIYDLQNGEFVRGYELPRPIQYLCWSPVG SKLAYVYQNNIYLKQRPGDP<br>PFQITYTGRENRIENGIPDWVYEEEMLATKYALWWSPDGKFLAYVEFNDSDIPII AYS                                                                                                                                                                                                                                                                                                     |

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YYGDGQYPRTINIPYPKAGAKNPVVRVFIVDTTYPHHVGPMEVPVPEMIASSDYYS  
 WLTWVSSERVCLQWL KRVQNVSVLSICDFREDWHAWECPKNQEHVEESRTGWA  
 GGFFVSTPAFSQDATSYKIFSDKDGYKHIHYIKDTV ENAIQITSGKWEAIYIFRVTQD  
 SLFYSSNEFEGYPGRRNIYRISIGNSPPSKKCVTCHLRKERCQYYTASFSYKA KYA  
 LVCYGPGLPISTLHDGRDQEIQVLEENKELENSLRNIQLPKVEIKKLKDGGGLTFWYK  
 MILPPQFDRSKKY PLLIQVYGGPCSQSVKSVFAVNWITYLASKEGIVIALVDGRGTAF  
 QGDKFLHAVYRKLGVEVEDQLTAVRKIE 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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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein Refseq</b>      | NP_032012                                                                                                                                                                 |
| <b>MIM</b>                 |                                                                                                                                                                           |
| <b>UniProt ID</b>          | P97321                                                                                                                                                                    |
| <b>Chromosome Location</b> | 2 C1.3; 2 35.85 cM                                                                                                                                                        |
| <b>Function</b>            | endopeptidase activity; hydrolase activity; peptidase activity; peptidase activity; protease binding; serine-type endopeptidase activity; serine-type peptidase activity; |

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