

## Active Recombinant Rat FAP protein, His-tagged

**Cat. No.** FAP-1442R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Rat FAP protein(Leu26-Asp761), fused with His tag, was expressed in HEK293.                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 26-761 a.a.                                                                                                                                                                                                                                                                                                                                         |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4.                                                                                                                                                                                                                                                                                           |
| <b>Bio-activity</b>     | Immobilized Rat FAP, His Tag at 1 µg/mL (100 µL/well) can bind Anti-FAP Antibody, Mouse IgG2a (FAP5) with a linear range of 0.6-4 ng/mL.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 >6500 pmol/min/µg. |
| <b>Molecular Mass</b>   | This protein carries a polyhistidine tag at the N-terminus.The protein has a calculated MW of 91.5 kDa. The protein migrates as 80-100 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.                                                                                                                                            |
| <b>Proteinlength</b>    | Leu26-Asp761                                                                                                                                                                                                                                                                                                                                        |
| <b>Endotoxin</b>        | Less than 1.0 EU per µg by the LAL method.                                                                                                                                                                                                                                                                                                          |

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|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | >95% as determined by SDS-PAGE.>90% as determined by SEC-MALS.                                                                                                                                                                                                                     |
| <b>Storage</b>        | For long term, the product should be stored at lyophilized state at -20°C or lower.Please avoid repeated freeze-thaw cycles. This product is stable after at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution. |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                                                      |

## GENE INFORMATION

|                        |                                                                |
|------------------------|----------------------------------------------------------------|
| <b>Gene Name</b>       | Fap fibroblast activation protein, alpha [ Rattus norvegicus ] |
| <b>Official Symbol</b> | FAP                                                            |
| <b>Synonyms</b>        | FAP; fibroblast activation protein, alpha; seprase;            |
| <b>Gene ID</b>         | 192203                                                         |
| <b>mRNA Refseq</b>     | NM_138850                                                      |
| <b>Protein Refseq</b>  | NP_620205                                                      |

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