

# Human FAP Protein

Cat. No. FAP-HM201

## Description

<b>Source</b>	Recombinant Human FAP Protein is expressed from HEK293 with hFc tag at the N-Terminus. It contains Leu26-Asp760.
<b>Accession</b>	Q12884-1
<b>Molecular Weight</b>	The protein has a predicted MW of 112.3 kDa. Due to glycosylation, the protein migrates to 110-120 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 90% as determined by HPLC

## Formulation and Storage

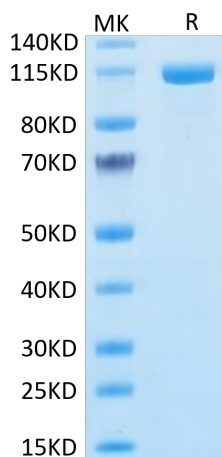
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Fibroblast activation protein (FAP) is a serine protease that has been reported in fibroblasts and some carcinoma cells, which correlates with poor patient outcomes. FAP can be induced under hypoxia which is also vital in the malignant behaviors of cancer cells.

## Assay Data

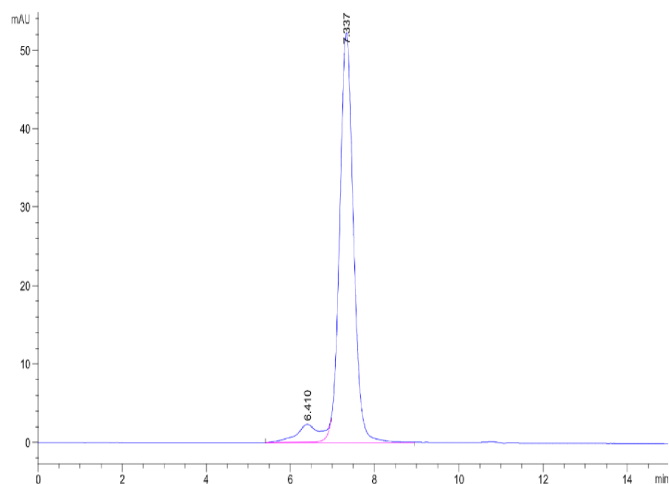
### Tris-Bis PAGE



Human FAP on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

## Assay Data

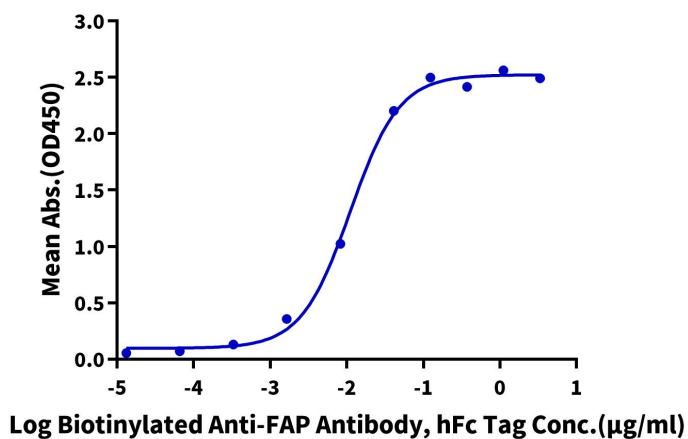


The purity of Human FAP is greater than 90% as determined by SEC-HPLC.

## ELISA Data

### Human FAP, hFc Tag ELISA

0.2 $\mu$ g Human FAP, hFc Tag Per Well



Immobilized Human FAP, hFc Tag at 2 $\mu$ g/ml (100 $\mu$ l/Well) on the plate. Dose response curve for Biotinylated Anti-FAP Antibody, hFc Tag with the EC50 of 11.1ng/ml determined by ELISA (QC Test).

## Bioactivity Data

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 >2000 pmol/min/ $\mu$ g (QC Test).