

# Biotinylated Human FAP Protein



Cat. No. FAP-HM401B

## Description

<b>Source</b>	Recombinant Biotinylated Human FAP Protein is expressed from HEK293 with His tag and Avi 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 87.10 kDa. Due to glycosylation, the protein migrates to 80-100 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22 µm 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. -80°C for 3 months 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.

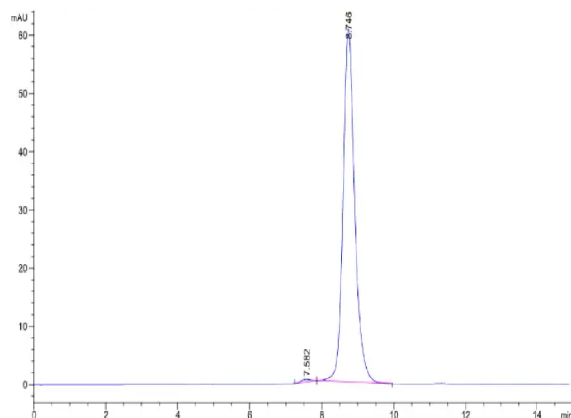
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



The purity of Biotinylated Human FAP is greater than 95% as determined by SEC-HPLC.

## Biotinylated Human FAP Protein

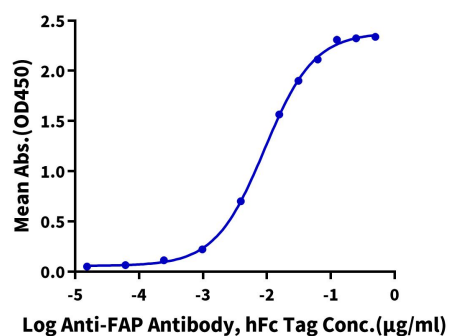
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### Assay Data

#### ELISA Data

##### Biotinylated Human FAP, His Tag ELISA

0.2 $\mu$ g Biotinylated Human FAP, His Tag Per Well



Immobilized Biotinylated Human FAP, His Tag at 2 $\mu$ g/ml (100 $\mu$ l/Well) on streptavidin(5 $\mu$ g/ml) precoated plate. Dose response curve for Anti-FAP Antibody, hFc Tag with the EC50 of 9.2ng/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 >4000 pmol/min/ $\mu$ g (QC Test).