

Human FAP Protein

Cat. No. FAP-HM201



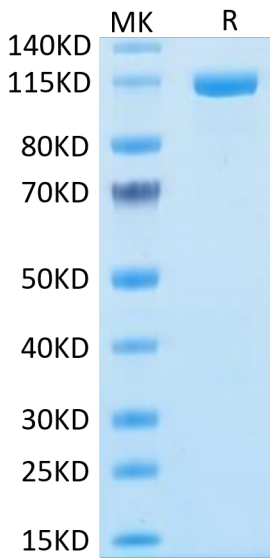
Description	
Source	Recombinant Human FAP Protein is expressed from HEK293 with hFc tag at the N-Terminus. It contains Leu26-Asp760.
Accession	Q12884-1
Molecular Weight	The protein has a predicted MW of 112.3 kDa. Due to glycosylation, the protein migrates to 110-120 kDa based on Bis-Tris PAGE result.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

Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-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

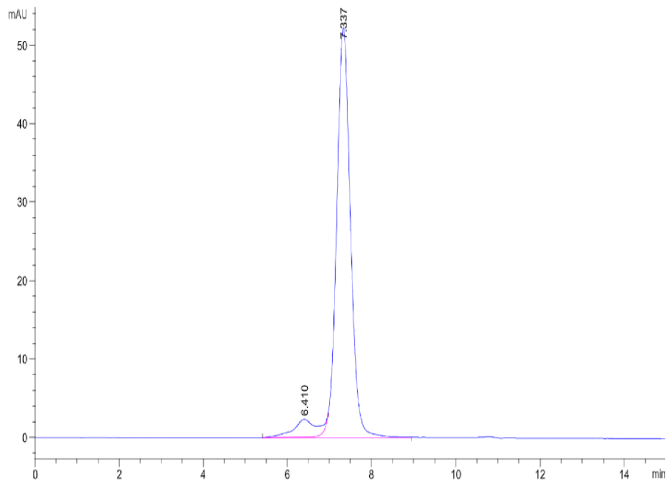
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

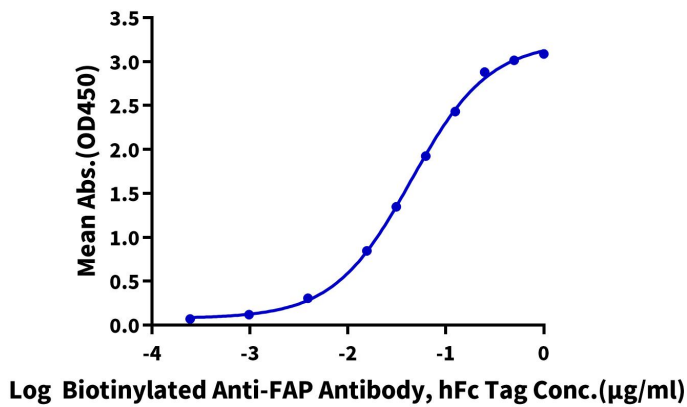


The purity of Human FAP is greater than 90% as determined by SEC-HPLC.

ELISA Data

Human FAP, hFc Tag ELISA

0.2µg Human FAP, hFc Tag Per Well



Immobilized Human FAP, hFc Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-FAP Antibody, hFc Tag with the EC50 of 44.4ng/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/µg (QC Test).