

Bioactive

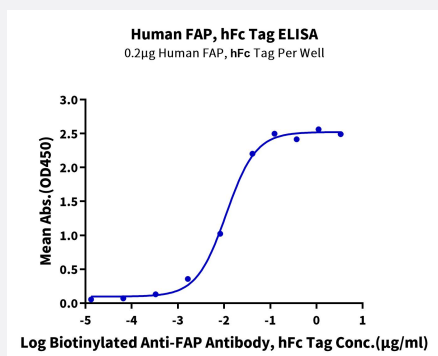
HuPro®

FAP (Human) Recombinant Protein

Catalog # P9899

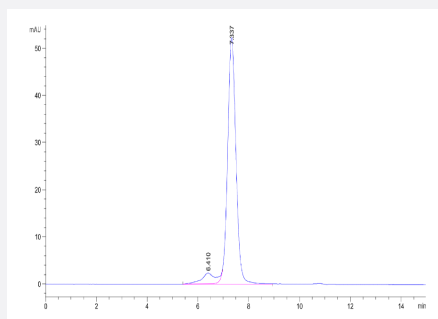
Size 100 ug

Applications



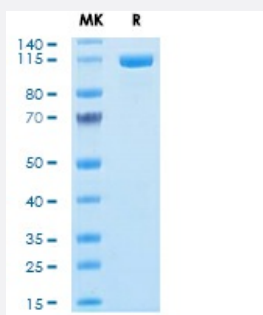
Enzyme-linked Immunoabsorbent Assay

Immobilized Human FAP, hFc Tag at 2 ug/mL (100 uL/Well) on the plate. Dose response curve for Biotinylated Anti-FAP Antibody, hFc Tag with the EC50 of 11.1 ng/mL determined by ELISA (QC Test).



SEC-HPLC

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



Tris-Bis PAGE

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

Specification

Product Description	Human FAP (Q12884-1, Leu26-Asp760) partial recombinant protein with hFc tag at N-Terminus expressed in HEK293 cells.
Sequence	Leu26-Asp760
Host	Human
Theoretical MW (kDa)	112.3
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC ₅₀ was 11.1 ng/mL, measured by ELISA at 2 ug/mL. Measured by the 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/ug (QC Test).
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human FAP is greater than 90% as determined by SEC-HPLC. Tris-Bis PAGE Human FAP on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Enzyme-linked Immunoabsorbent Assay

Immobilized Human FAP, hFc Tag at 2 ug/mL (100 uL/Well) on the plate. Dose response curve for Biotinylated Anti-FAP Antibody, hFc Tag with the EC₅₀ of 11.1 ng/mL determined by ELISA (QC Test).

- Functional Study

- SDS-PAGE

Gene Info — FAP

Entrez GeneID	2191
Protein Accession#	Q12884-1
Gene Name	FAP
Gene Alias	DKFZp686G13158, DPPIV, FAPA
Gene Description	fibroblast activation protein, alpha
Omim ID	600403
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a homodimeric integral membrane gelatinase belonging to the serine protease family. It is selectively expressed in reactive stromal fibroblasts of epithelial cancers, granulation tissue of healing wounds, and malignant cells of bone and soft tissue sarcomas. This protein is thought to be involved in the control of fibroblast growth or epithelial-mesenchymal interactions during development, tissue repair, and epithelial carcinogenesis. [provided by RefSeq]
Other Designations	fibroblast activation protein, alpha subunit integral membrane serine protease seprase

Disease

- [Tobacco Use Disorder](#)