# Human FAP Protein

**Cat. No.** FAP-HM101

## Description

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|---|---|
| **Source** | Recombinant Human FAP Protein is expressed from HEK293 with His tag at the N-Terminus. |
| | It contains Leu26-Asp760. |
| **Accession** | Q12884-1 |
| **Molecular Weight** | The protein has a predicted MW of 86.1 kDa. Due to glycosylation, the protein migrates to 90-100 kDa based on Tris-Bis PAGE result. |
| **Endotoxin** | Less than 1EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Tris-Bis PAGE |
| | > 95% as determined by HPLC |

## Formulation and Storage

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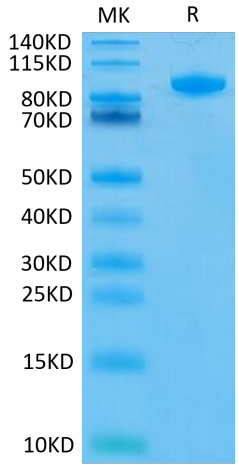
|---|---|
| **Formulation** | Lyophilized from 0.22μm filtered solution in 20mM Tris,0.25M NaCl (pH 8.2). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| **Storage** | -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 conditions. The purity is greater than 95%.

**SEC-HPLC**

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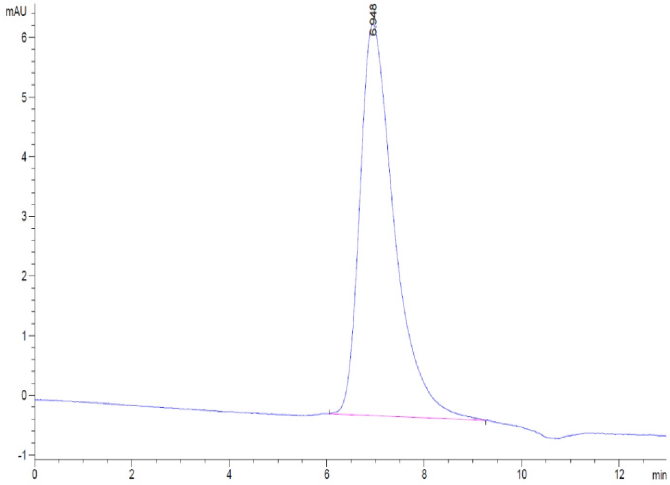
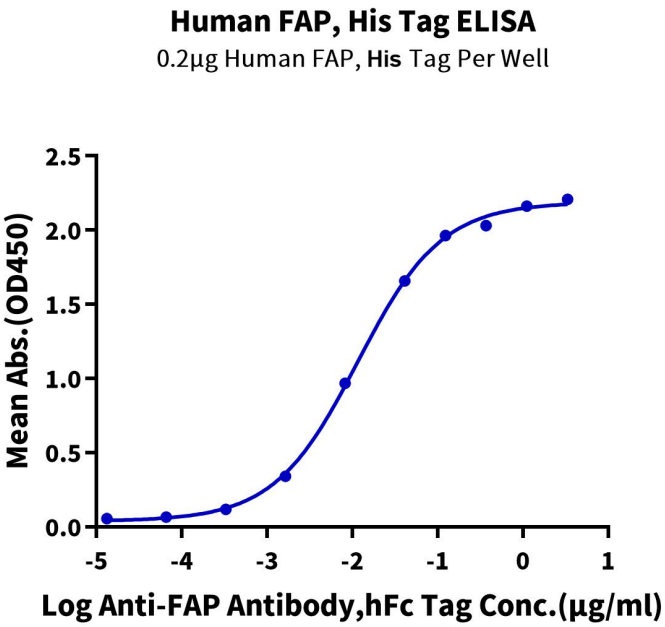
## Assay Data




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

### ELISA Data




Immobilized Human FAP, His Tag at 2μg/ml (100μl/Well) on the plate. Dose response curve for Anti-FAP Antibody, hFc Tag with the EC50 of 12.3ng/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 >3000 pmol/min/μg (QC Test).