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Recombinant Mouse Prolyl endopeptidase FAP Protein

Catalog No.: RP03553 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	14089	P97321-1

Tags
N-His

Synonyms
Fap;Prolyl endopeptidase FAP;Antiplasmin-cleaving enzyme FAP; soluble form; APCE

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by Bis-Tris PAGE

Calculated MW	Observed MW
86.4 kDa	80-115 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

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Background

Cell surface glycoprotein serine protease that participates in extracellular matrix degradation and involved in many cellular processes including tissue remodeling, fibrosis, wound healing, inflammation and tumor growth. Both plasma membrane and soluble forms exhibit post-proline cleaving endopeptidase activity, with a marked preference for Ala/Ser-Gly-Pro-Ser/Asn/Ala consensus sequences, on substrate such as alpha-2-antiplasmin SERPINF2 and SPRY2. Degrade also gelatin, heat-denatured type I collagen, but not native collagen type I and IV, vibronectin, tenascin, laminin, fibronectin, fibrin or casein. Also has dipeptidyl peptidase activity, exhibiting the ability to hydrolyze the prolyl bond two residues from the N-terminus of synthetic dipeptide substrates provided that the penultimate residue is proline, with a preference for Ala-Pro, Ile-Pro, Gly-Pro, Arg-Pro and Pro-Pro. Natural neuropeptide hormones for dipeptidyl peptidase are the neuropeptide Y (NPY), peptide YY (PYY), substance P (TAC1) and brain natriuretic peptide 32 (NPPB). The plasma membrane form, in association with either DPP4, PLAUR or integrins, is involved in the pericellular proteolysis of the extracellular matrix (ECM), and hence promotes cell adhesion, migration and invasion through the ECM. Plays a role in tissue remodeling during development and wound healing. Participates in the cell invasiveness towards the ECM in malignant melanoma cancers. Enhances tumor growth progression by increasing angiogenesis, collagen fiber degradation and apoptosis and by reducing antitumor response of the immune system. Promotes glioma cell invasion through the brain parenchyma by degrading the proteoglycan brevican. Acts as a tumor suppressor in melanocytic cells through regulation of cell proliferation and survival in a serine protease activity-independent manner.

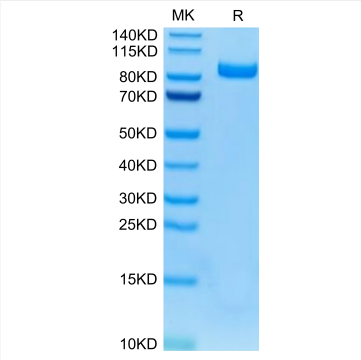
Basic Information

Description
Recombinant Mouse Prolyl endopeptidase FAP Protein is produced byHEK293 cells system. The target protein is expressed with sequence (Leu26-Asp761) of Mouse Prolyl endopeptidase FAP(Accession #NP_032012.1) fused with His tag at the N-Terminus.

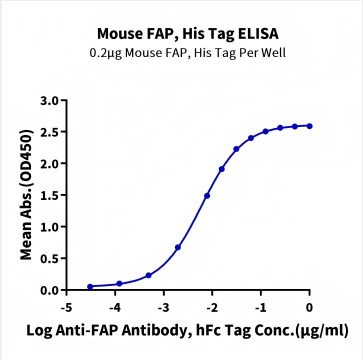
Bio-Activity
1.Immobilized Mouse FAP, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Anti-FAP Antibody, hFc Tag with the EC50 of 6.0ng/ml determined by ELISA.
2.Measured by its ability to convert the substrate benzyloxycarbonyl-Gly-Pro-7-amido-4-methylcoumarin (Z-GP-AMC) to Z-Gly-Pro and 7-amino-4-methylcoumarin (AMC). The specific activity is >2000 pmol/min/μg.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse Prolyl endopeptidase FAP Protein was determined on Bis-Tris PAGE under reduced conditions.



Immobilized Mouse FAP, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Anti-FAP Antibody, hFc Tag with the EC_{50} of 6.0ng/ml determined by ELISA.