

FAP Protein, Cynomolgus (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P78120
Synonyms:	FAP; FAPalpha; SIMP; Seprase; APCE; DPPIV; DPPIVA; FAPA
Species:	Cynomolgus
Source:	HEK293
Accession:	XP_005573377 (L26-D760)
Gene ID:	102134935
Molecular Weight:	90-110 kDa

PROPERTIES

Biological Activity	Immobilized Anti-FAP Antibody, hFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Cynomolgus FAP, His Tag with the EC ₅₀ of 58.5ng/ml determined by ELISA.
Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 20 mM Tris, 500 mM NaCl, 200 mM Arginine, pH 8.2.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>FAP protein is a type II transmembrane serine protease that promotes cell invasion and tumor growth, and is almost completely expressed in pathological conditions such as fibrosis, arthritis, and cancer. FAP protein has dipeptidyl peptidase activity, thus being able to cleave neuropeptide Y, peptide YY, substance P, and brain natriuretic peptide. FAP protein can cleave α-2 anti-fibrinolytic enzyme, converting α2-anti-fibrinolytic enzyme into a more effective fibrinolytic inhibitor, with the function of enhancing coagulation. FAP protein promotes tumor growth through multiple mechanisms such as proliferation, invasion, angiogenesis, epithelial-mesenchymal transition, stem cell promotion, immune suppression, and drug resistance. FAP protein is associated with various human pathologies, including fibrosis, arthritis, atherosclerosis, autoimmune diseases, metabolic diseases, and cancer^{[1][2]}.</p> <p>Targeting FAP Protein to cancer-related fibroblasts can achieve highly specific imaging and treatment of solid tumors^[3].</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA