FAP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FAP, Polyclonal Antibody
Full Product Name	FAP, ID (Seprase,FAP,) (MaxLight 650)
Product Gene Name	anti-FAP antibody
Product Synonym Names	Seprase,FAP
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	87,713 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (163027200..163100045, complement). Location: 2q23
OMIM	600403
3D Structure	ModBase 3D Structure for Q12884
Immunogen	FAP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 396-426 amino acids from the Central region of human FAP.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-FAP antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-FAP antibody	Western Blot (WB), FLISA
Application Notes for anti-FAP antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-FAP antibody	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.
Product References and Citations for anti-FAP antibody	Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Ospelt, C., et al. Arthritis Rheum. 62(5):1224-1235(2010). Stremenova, J., et al. Int. J. Oncol. 36(2):351-358(2010). Chen, H., et al. Exp. Mol. Pathol. 87(3):189-194(2009). Dohi, O., et al. Histopathology 55(4):432-440(2009).

Other Notes	Small volumes of anti-FAP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FAP purchase	MBS6298040 is an antibody targeting FAP. Also known as FAP, ID (Seprase,FAP,) (MaxLight 650). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FAP. It may not necessarily be applicable to this product.

NCBI GI #	16933540
NCBI GeneID	2191
NCBI Accession #	NP_004451.2
UniProt Primary Accession #	Q12884
UniProt Secondary Accession #	O00199; Q53TP5; Q86Z29; Q99998; Q9UID4
UniProt Related Accession #	Q12884
GenBank Nucleotide #	NM_004460.2
NCBI Official Full Name	seprase
NCBI Official Synonym Full Names	fibroblast activation protein, alpha
NCBI Official Symbol	FAP
NCBI Official Synonym Symbols	FAPA; DPPIV
UniProt Protein Name	Seprase
UniProt Synonym Protein Names	170 kDa melanoma membrane-bound gelatinase; Fibroblast activation protein alpha; Integral membrane serine protease
Protein Family	Prolyl endopeptidase
UniProt Gene Name	FAP
UniProt Entry Name	SEPR_HUMAN
NCBI Protein Information	seprase; integral membrane serine protease; 170 kDa melanoma membrane-bound gelatinase
UniProt Comments for FAP	FAP: In association with DPP4 is involved in the pericellular proteolysis of the extracellular matrix (ECM), the migration and invasion of endothelial cells into the ECM. May have a role in tissue remodeling during development and wound healing, and may contribute to invasiveness in malignant cancers. Belongs to the peptidase S9B family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.4.14.5; Protease; EC 3.4.21.26; Membrane protein, integral Chromosomal Location of Human Ortholog: 2q23 Cellular Component: extracellular space; focal adhesion; cell surface; lamellipodium; apical part of cell; cytoplasm; plasma membrane; integral to membrane Molecular Function: integrin binding; protein dimerization activity; peptidase activity; protein binding; protein homodimerization activity; protease binding; dipeptidyl-peptidase activity; serine-type peptidase activity; metalloendopeptidase activity; serine-type endopeptidase activity; endopeptidase activity Biological Process: proteolysis involved in cellular protein catabolic process; endothelial cell migration; angiogenesis; proteolysis; cell adhesion; regulation of fibrinolysis
Research Articles on FAP	**1.** High intratumoral expression of fibroblast activation protein is associated with colorectal cancer.

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