Coagulation Factor VII (F7) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Coagulation Factor VII (F7), Polyclonal Antibody
Full Product Name	Cy3-Linked Polyclonal Antibody to Coagulation Factor VII (F7)
Product Gene Name	anti-F7 antibody
Product Synonym Names	FVII; SPCA; proconvertin; Cothromboplastin; Serum Prothrombin Conversation Accelerator; Stable Factor; Eptacog alfa
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Concentration	>=100ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: F7 (MBS2001456) Cy3 Conjugated Antibody: F7 (MBS2060130)
Matching Pairs	Cy3 Conjugated Antibody: F7 (MBS2060130) Immunogen: F7 (MBS2010835)
Molecular Weight	49,320 Da
OMIM	M13232 mRNA
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	F7 (Ala315~Asp433)
Conjugation	Cy3
Cross Reactivity	Mouse
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2001456
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-F7 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-F7 antibody	MBS2060130 is an antibody targeting F7. Also known as Cy3-Linked Polyclonal Antibody to Coagulation Factor VII (F7). Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-F7 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for F7. It may not necessarily be applicable to this product.

NCBI GI #	12750767
NCBI GeneID	2155
NCBI Accession #	AAC50211.2

UniProt Secondary Accession #	Q14339; Q5JVF1; Q5JVF2; Q9UD52; Q9UD53; Q9UD54; B0YJC8
UniProt Related Accession #	P08709
NCBI Official Full Name	coagulation factor VII, partial
NCBI Official Synonym Full Names	coagulation factor VII
NCBI Official Symbol	F7
NCBI Official Synonym Symbols	SPCA
UniProt Protein Name	Coagulation factor VII
UniProt Synonym Protein Names	Proconvertin; Serum prothrombin conversion accelerator; SPCA
Protein Family	Coagulation factor
UniProt Gene Name	F7
UniProt Synonym Gene Names	SPCA
NCBI Protein Information	coagulation factor VII
NCBI Summary for F7	This gene encodes coagulation factor VII which is a vitamin K-dependent factor essential for hemostasis. This factor circulates in the blood in a zymogen form, and is converted to an active form by either factor IXa, factor Xa, factor XIIa, or thrombin by minor proteolysis. Upon activation of the factor VII, a heavy chain containing a catalytic domain and a light chain containing 2 EGF-like domains are generated, and two chains are held together by a disulfide bond. In the presence of factor III and calcium ions, the activated factor then further activates the coagulation cascade by converting factor IX to factor IXa and/or factor X to factor Xa. Defects in this gene can cause coagulopathy. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar proteolytic processing to generate mature polypeptides. [provided by RefSeq, Aug 2015]
UniProt Comments for F7	F7: Initiates the extrinsic pathway of blood coagulation. Serine protease that circulates in the blood in a zymogen form. Factor VII is converted to factor VIIa by factor Xa, factor XIIa, factor IXa, or thrombin by minor proteolysis. In the presence of tissue factor and calcium ions, factor VIIa then converts factor X to factor Xa by limited proteolysis. Factor VIIa will also convert factor IX to factor IXa in the presence of tissue factor and calcium. Defects in F7 are the cause of factor VII deficiency (FA7D). A hemorrhagic disease with variable presentation. The clinical picture can be very severe, with the early occurrence of intracerebral hemorrhages or repeated hemarthroses, or, in contrast, moderate with cutaneous-mucosal hemorrhages (epistaxis, menorrhagia) or hemorrhages provoked by a surgical intervention. Finally, numerous subjects are completely asymptomatic despite very low factor VII levels. Belongs to the peptidase S1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Apoptosis; EC 3.4.21.21; Motility/polarity/chemotaxis; Protease; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 13q34 Cellular Component: endoplasmic reticulum lumen; extracellular region; Golgi lumen; plasma membrane Molecular Function: glycoprotein binding; protein binding; serine-type endopeptidase activity; serine-type peptidase activity Biological Process: blood coagulation; blood coagulation, extrinsic pathway; ER to Golgi vesicle-mediated transport; peptidyl-glutamic acid carboxylation; positive regulation of cell migration; positive regulation of leukocyte chemotaxis; positive regulation of positive chemotaxis; positive regulation of protein kinase B signaling cascade; protein processing; signal peptide processing Disease: Factor Vii Deficiency; Myocardial Infarction, Susceptibility To
Research Articles on F7	**1.** Our study findings suggest a link between FVII and AR in prostate cancer pathogenesis.
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