Mouse anti-Human VII/F7 Monoclonal Antibody | anti-F7 antibody

Coagulation Factor VII/F7

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215447	**Mouse**	**Human**	**Immunohistochemistry, ELISA**

PRODUCT SYNONYMS

VII/F7; Monoclonal Antibody; Coagulation Factor VII/F7; Eptacog alfa; Factor VII heavy chain; Factor VII light chain; FVII coagulation protein; Proconvertin; Serum prothrombin conversion accelerator (SPCA); anti-F7 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	F7/3516
Specificity	Hemostasis following tissue injury involves the deployment of essential plasma procoagulants (prothrombin and Factors X, IX, V and VIII), which are involved in a blood coagulation cascade that leads to the formation of insoluble Fibrin clots and the promotion of platelet aggregation. Coagulation Factor VII (serum prothrombin conversion accelerator, proconvertin, F7, Factor VII) is a 406 amino acid, vitamin K-dependent, single chain serine protease that is synthesized in the liver and circulates as an inactive precursor. Factor IX A, Factor X A, Factor XII A or Thrombin-mediated proteolytic cleavage of Factor VII at Arg 152-Ile 153 generates Factor VII A, an active serine protease composed of a catalytic heavy chain disulfide linked to a light chain, containing two EGF-like domains. Mutations at the F7 locus that lead to Factor VII deficiencies are generally asymptomatic or phenotypically uncharacterized, with hemorrhagic diathesis occurring at extremely low levels.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml or Purified Ab with BSA and Azide at 200ug/ml or Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	466
Applicable Applications for anti-F7 antibody	IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant fragment (around aa 366-466) of Human F7 protein
Cellular Localization	Secreted
Hu-chromosome Location	13q34
Positive Control	Human liver or Gastric carcinoma.
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES

Application Data
Analysis of Protein Array containing more than 19,000 full-length human proteins using Coagulation Factor VII Mouse Monoclonal Antibody (F7/3516). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

SDS-PAGE
SDS-PAGE Analysis Purified Coagulation Factor VII Mouse Monoclonal Antibody (F7/3516). Confirmation of Integrity and Purity of Antibody.

IHC (Immunohiostchemistry)
Formalin-fixed, paraffin-embedded human liver stained with Coagulation Factor VII Mouse Monoclonal Antibody (F7/3516).

IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human liver stained with Coagulation Factor VII Mouse Monoclonal Antibody (F7/3516).

ADDITIONAL INFORMATION

References	Davie, E.W., et al. 1975. Basic mechanisms in blood coagulation. Annu. Rev. Biochem. 44: 799-829.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503645
NCBI GeneID	2155
NCBI Accession #	NP_000122.1
NCBI GenBank Nucleotide #	NP_000122.1
UniProt Accession #	P08709
Molecular Weight	200/80/73/50/43 kDa
NCBI Official Full Name	coagulation factor VII isoform a preproprotein
NCBI Official Synonym Full Names	coagulation factor VII
NCBI Official Symbol	F7
NCBI Official Synonym Symbols	SPCA
NCBI Protein Information	coagulation factor VII
UniProt Protein Name	Coagulation factor VII
UniProt Gene Name	**F7**
UniProt Synonym Gene Names	SPCA
UniProt Entry Name	FA7_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.