

## Human Coagulation Factor VII Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 321621 Catalog Number: FAB2338V

100 µg

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Coagulation Factor VII in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) Kallikrein-1, -2, -3, -4, -5, -7, -8, -9, -10, -11, -12, -13, -14, -15, -B1, rhHGFA, rhFactor X, rhFactor	
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 321621	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Coagulation Factor VII Ala39-Pro444 Accession # NP_062562	
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm	
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide	
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Shee (SDS) for additional information and handling instructions.	

APPLICATIONS			
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.			
Western Blot	Optimal dilution of this antibody should be experimentally determined.		
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.		
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.		

PREPARATION AND STORAGE		
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied	

## BACKGROUND

Coagulation Factors VII and VIIa refer to the pro and active forms of the same protease, respectively (1). Factor VII is synthesized in the liver and circulates in the plasma where it binds to tissue factor (TF), an integral membrane protein found in a variety of cell types. Upon binding of TF, Factor VII is rapidly converted into VIIa. The resulting 1:1 complex of VIIa and TF initiates the coagulation pathway and has also important coagulation-independent functions such as angiognesis (2). The cleavage and activation of Coagulation Factors VII, IX and X by VIIa:TF is phospholipid-dependent whereas the cleavage of small peptide substrates is not (1). The predominant splicing variant of Factor VII in normal liver corresponds to the 444 amino acid precursor (3, 4). After a signal peptide (aa 1 to 38), the mature chain can be further processed into the light chain (aa 39 to 190) and the heavy chain (aa 191 to 444).

## PRODUCT SPECIFIC NOTICES

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