

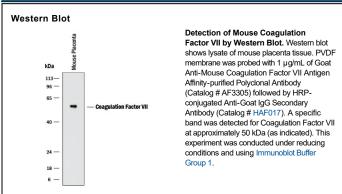
Mouse Coagulation Factor VII Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF3305

DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse Coagulation Factor VII in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant human (rh) Factor VII, rhFactor X, and rhFactor Xa is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse Coagulation Factor VII Ala42-Leu446 Accession # P70375
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Immunoprecipitation	oltation 25 μg/mL Conditioned cell culture medium spiked with Recombinant Mouse Coagulation F (Catalog # 3305-SE), see our available Western blot detection antibodies	



PREPAR		

Stability & Storage	lies a manual defroet freezer and avoid repeated freeze thaw cycles		
	*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.		
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.		
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- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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 angiogenesis (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 deduced amino acid sequence of mouse factor VII predicts a signal peptide (residues 1 to 24), propeptide (residues 25 to 41), and the mature chain that can be further processed into the light chain (residues 42 to 193) and the heavy chain (residues 194 to 446). The amino acid sequence of mouse Factor VII is 89%, 71%, 65% and 55% identical to that of rat, human/dog, chimpanzee and chicken.

References:

- Morrissey, J.H. (2004) in Handbook of Proteolytic Enzymes, Barrett, A.J. et al. (eds.), Academic Press, San Diego, p. 1659. 1.
- Versteeg, H.H. et al. (2003) Carcinogenesis 24:1009.

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