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**Anti-Human Factor VII/VIIa
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL2763AP	Purified	200 µg	1.0 mg/ml	CLCMG100
CL2763B	Biotin	100 µg	0.1 mg/ml	CLCMG115
CL2763HP	HRPO	100 µg	0.1 mg/ml	N/A

Isotype: Mouse IgG₁

DESCRIPTION:

Human blood coagulation factor VII is a 50 kD, vitamin K dependent, plasma glycoprotein synthesized in the liver and secreted into the blood as a single chain zymogen of serine protease factor VIIa. Factor VII participates in a cascade of reactions leading to the coagulation of blood and contains two Epidermal Growth Factor (EGF) domains. This antibody recognizes an epitope in the first EGF-like domain of factor VII/VIIa.

Factor VII participates in the extrinsic pathway of blood coagulation in an activated form called factor VIIa. Factor VII can be converted to VIIa by Factor IXa or thrombin.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.

Biotin: Biotin conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

HRPO: HRPO conjugated IgG buffered in PBS with 40% glycerol (v/v) and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. No NaN₃ with other preservatives.

STORAGE/STABILITY:

For all formats, store at 4°C. For long term storage (Purified, Biotin, HRPO), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

APPLICATIONS:

This antibody is suitable for use in ELISA and Western Blot.

Continued Overleaf.....

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SPECIFICATIONS:

Clone: AA-3

Immunogen: Human Factor VII purified from plasma.

Specificity: This antibody is specific for factor VII/VIIa.

Appropriate control samples should always be included in any labeling studies.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

REFERENCES:

1. Kazama et al; Isolation and Characterization of Proteolytic Fragments of Human Factor VIIa Which Inhibit the Tissue Factor-enhanced Amidolytic Activity of Factor VIIa; The Journal of Biological Chemistry 286(22), pp 16231-16240, 1993.
2. Bharadwaj et al; A Novel Mutation in the Catalytic Domain That Reduces Tissue Factor Binding, Impairs Activation by Factor XA, and Abolishes Amidolytic and Coagulant Activity; JBC 271(48) pp 30685-30691, 1996.
3. Yamamoto et al; Tissue Factor-dependent Autoactivation of Human Blood Coagulation Factor VII; JBC 267(27) 19089-19094, 1992.

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