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Anti-Factor II APII Antibody

Catalog # AP59548

Product Information

Application	WB, IF/IC
Primary Accession	P00734
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70037

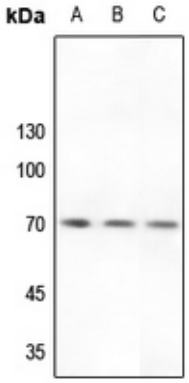
Additional Information

Gene ID	2147
Other Names	Prothrombin; Coagulation factor II
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Factor II APII. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

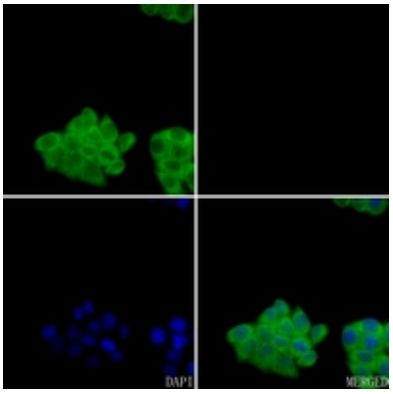
Protein Information

Name	F2
Function	Thrombin, which cleaves bonds after Arg and Lys, converts fibrinogen to fibrin and activates factors V, VII, VIII, XIII, and, in complex with thrombomodulin, protein C. Functions in blood homeostasis, inflammation and wound healing. Activates coagulation factor XI (F11); activation is promoted by the contact with negatively charged surfaces (PubMed:2019570, PubMed:21976677). Triggers the production of pro- inflammatory cytokines, such as MCP-1/CCL2 and IL8/CXCL8, in endothelial cells (PubMed:30568593, PubMed:9780208).
Cellular Location	Secreted, extracellular space.
Tissue Location	Expressed by the liver and secreted in plasma.

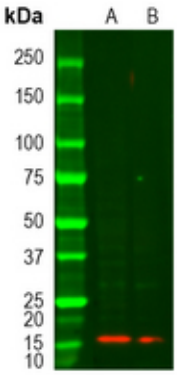
Images



Western blot analysis of Factor II APII full length expression in HEK293T (A), Hela (B), rat liver (C) whole cell lysates. (Predicted band size: 70 kD; Observed band size: 70 kD)



Immunofluorescent analysis of Factor II APII staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Western blot analysis of Factor II APII expression in Hela (A), MCF7 (B) whole cell lysates. (Predicted band size: 70 kD; Observed band size: 14 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.