

**Anti-Factor II Antibody**  
Rabbit polyclonal antibody to Factor II  
Catalog # AP61033

### Specification

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#### Anti-Factor II Antibody - Product Information

Application	WB
Primary Accession	<a href="#">P00734</a>
Other Accession	<a href="#">P19221</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70037

#### Anti-Factor II Antibody - Additional Information

Gene ID 2147

#### Other Names

Prothrombin; Coagulation factor II

#### Target/Specificity

Recognizes endogenous levels of Factor II protein.

#### Dilution

WB~~WB (1/500 - 1/1000), IH (1/50 - 1/100)

#### Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

#### Storage

Store at -20 °C. Stable for 12 months from date of receipt

#### Anti-Factor II Antibody - 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](http://www.uniprot.org/citations/2019570), PubMed: [21976677](http://www.uniprot.org/citations/21976677)). Triggers the production of pro- inflammatory cytokines, such as MCP-1/CCL2 and IL8/CXCL8, in endothelial cells (PubMed: [30568593](http://www.uniprot.org/citations/30568593), PubMed: [9780208](http://www.uniprot.org/citations/9780208)).

**Cellular Location**

Secreted, extracellular space.

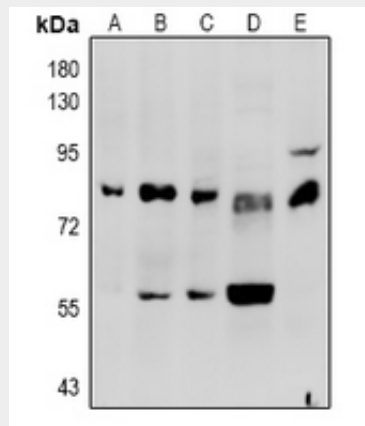
**Tissue Location**

Expressed by the liver and secreted in plasma.

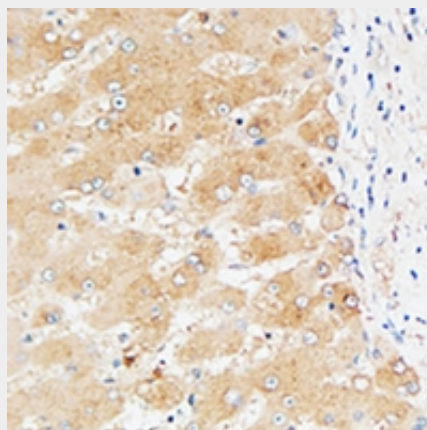
**Anti-Factor II Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-Factor II Antibody - Images**

Western blot analysis of Factor II expression in K562 (A), A549 (B), LO2 (C), rat liver (D), mouse liver (E) whole cell lysates.



Immunohistochemical analysis of Factor II staining in human liver formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with

sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

#### **Anti-Factor II Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Factor II. The exact sequence is proprietary.