

For Research Use Only

# Coagulation Factor II Monoclonal antibody

Catalog Number: 66509-1-Ig

1 Publications



## Basic Information

<b>Catalog Number:</b> 66509-1-Ig	<b>GenBank Accession Number:</b> BC051332	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 1700 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 2147	<b>CloneNo.:</b> 1E12A8
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P00734	<b>Recommended Dilutions:</b> WB: 1:1000-1:4000 IHC: 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> coagulation factor II (prothrombin)	
<b>Immunogen Catalog Number:</b> AG18385	<b>Calculated MW:</b> 622 aa, 70 kDa	
	<b>Observed MW:</b> 70-80 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : human plasma tissue, IHC : human liver tissue,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> pig	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Normal blood coagulation is a complex process, involving a cascade of activation of different plasma proteins, ultimately resulting in the formation of a clot, called fibrin. Coagulation Factor II, also known as prothrombin or factor II, is one of the components of this chain of plasma proteins involved in blood coagulation. Prothrombin is the precursor of thrombin, which is essential in the processes of hemostasis and thrombosis.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xuejiao Zhu	39533356	Vet Res	WB

## Storage

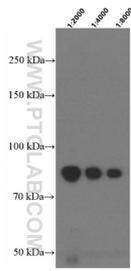
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

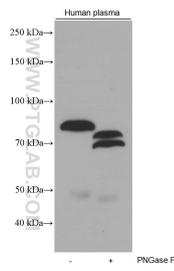
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

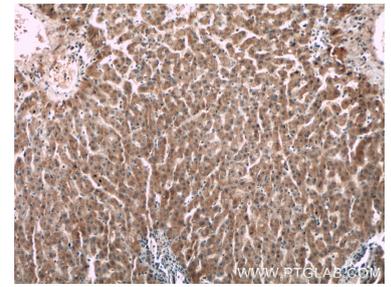
## Selected Validation Data



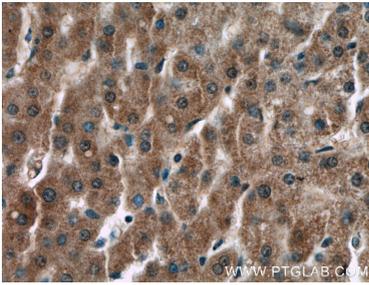
human plasma was subjected to SDS PAGE followed by western blot with 66509-1-Ig (Coagulation Factor II antibody) at various dilutions incubated at room temperature for 1.5 hours.



Untreated and PNGase F-treated lysates of human plasma were subjected to SDS PAGE followed by western blot with 66509-1-Ig (Coagulation Factor II antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. PNGase F was obtained from Atagenix (cat.NO. ata808).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66509-1-Ig (Coagulation Factor II antibody) at dilution of 1:150 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66509-1-Ig (Coagulation Factor II antibody) at dilution of 1:150 (under 40x lens).