

For Research Use Only

# Factor X Monoclonal antibody, PBS Only

Catalog Number: 66753-1-PBS



## Basic Information

<b>Catalog Number:</b> 66753-1-PBS	<b>GenBank Accession Number:</b> BC046125	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2159	<b>CloneNo.:</b> 3D3F11
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P00742	
<b>Isotype:</b> IgG1	<b>Full Name:</b> coagulation factor X	
<b>Immunogen Catalog Number:</b> AG11664	<b>Calculated MW:</b> 488 aa, 55 kDa	
	<b>Observed MW:</b> 50 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF-P, Indirect ELISA

**Species Specificity:**  
Human

## Background Information

Coagulation factor X (F10) is a vitamin K-dependent glycoprotein that participates in the middle phase of the blood coagulation cascade (PMID: 1931959; 1313796). It is synthesized as a single-chain precursor in the liver where it undergoes a number of covalent processing steps before secretion into the blood as a two-chain molecule linked by a disulfide bond (PMID: 1313796). The light chain contains 2 EGF-like domains, while the heavy chain contains the catalytic domain which is structurally homologous to those of the other hemostatic serine proteases. Factor X is activated into factor Xa, by both the extrinsic and intrinsic pathway. The activated factor then converts prothrombin to thrombin in the presence of factor Va, calcium and phospholipid during blood clotting.

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

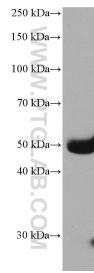
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

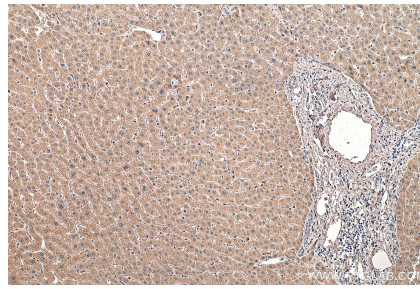
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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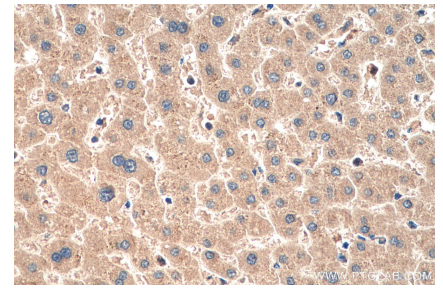
## Selected Validation Data



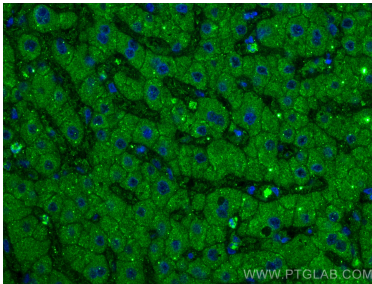
human plasma were subjected to SDS PAGE followed by western blot with 66753-1-Ig (Factor X antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66753-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66753-1-Ig (Factor X antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66753-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66753-1-Ig (Factor X antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66753-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed human liver tissue using Factor X antibody (66753-1-Ig, Clone: 3D3F11) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66753-1-PBS in a different storage buffer formulation.