

# CoraLite® Plus 488-conjugated Factor X Monoclonal antibody

Catalog Number: **CL488-66753**

## Basic Information

**Catalog Number:**

CL488-66753

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG11664

**GenBank Accession Number:**

BC046125

**GeneID (NCBI):**

2159

**UNIPROT ID:**

P00742

**Full Name:**

coagulation factor X

**Calculated MW:**

488 aa, 55 kDa

**Observed MW:**

50 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

3D3F11

**Recommended Dilutions:**

IF-P 1:50-1:500

**Excitation/Emission maxima  
wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:**

IF-P

**Species Specificity:**

Human

**Positive Controls:**

IF-P : human liver tissue,

## 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 -20°C. Avoid exposure to light. Stable for one year after shipment.

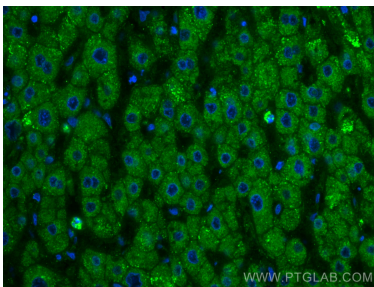
**Storage Buffer:**

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human liver tissue using CoraLite® Plus 488 Factor X antibody (CL488-66753, Clone: 3D3F11 ) at dilution of 1:200.