## Overview

**Product name**  Anti-Factor X antibody  
**Description**  Rabbit polyclonal to Factor X  
**Host species**  Rabbit  
**Tested applications**  Suitable for: ICC/IF, Flow Cyt, IHC-P, WB, RIA  
**Species reactivity**  Reacts with: Human  
**Immunogen**  Human Factor X purified from human plasma  
**Positive control**  This antibody gave a positive result in IHC in the following FFPE tissue: Human normal liver. This antibody gave a positive result when used in the following formaldehyde fixed cell lines: HepG2.

## Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Storage instructions</td>
<td>Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.</td>
</tr>
</tbody>
</table>
| Storage buffer    | pH: 7.50  
Preservative: 0.01% Thimerosal (merthiolate)  
Constituents: 50% PBS, 50% Glycerol |
| Purity            | Protein G purified                                                      |
| Clonality         | Polyclonal                                                             |
| Isotype           | IgG                                                                    |

## Applications

Our [Abpromise guarantee](#) covers the use of **ab79929** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flow Cyt</td>
<td></td>
<td>⭐⭐⭐⭐⭐</td>
</tr>
<tr>
<td>Application</td>
<td>Abreviews</td>
<td>Notes</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------</td>
<td>-------</td>
</tr>
<tr>
<td>IHC-P</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RIA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Application notes**

- EIA/RIA: Use at a concentration of 5 µg/ml.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

**Target**

**Function**

Factor Xa is a vitamin K-dependent glycoprotein that converts prothrombin to thrombin in the presence of factor Va, calcium and phospholipid during blood clotting.

**Tissue specificity**

Plasma; synthesized in the liver.

**Involvement in disease**

Defects in F10 are the cause of factor X deficiency (FA10D) [MIM:227600]. A hemorrhagic disease with variable presentation. Affected individuals can manifest prolonged nasal and mucosal hemorrhage, menorrhagia, hematuria, and occasionally hemarthrosis. Some patients do not have clinical bleeding diathesis.

**Sequence similarities**

Belongs to the peptidase S1 family.

Contains 2 EGF-like domains.

Contains 1 Gla (gamma-carboxy-glutamate) domain.

Contains 1 peptidase S1 domain.

**Post-translational modifications**

The vitamin K-dependent, enzymatic carboxylation of some glutamate residues allows the modified protein to bind calcium.

N- and O-glycosylated.

The activation peptide is cleaved by factor IXa (in the intrinsic pathway), or by factor VIIa (in the extrinsic pathway).

The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains.

**Cellular localization**

Secreted.

**Form**

Cleaved into the following 3 chains: 1. Factor X light chain 2. Factor X heavy chain 3. Activated factor Xa heavy chain
Immunocytochemistry/ Immunofluorescence - Anti-Factor X antibody (ab79929)

ICC/IF image of ab79929 stained HepG2 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab79929 at 5µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti-rabbit (ab96899) IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Factor X antibody (ab79929)

IHC image of Factor X staining in Human normal liver formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab79929, 1µg/ml, for 15 mins 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.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
• We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

• Guarantee only valid for products bought direct from Abcam or one of our authorized distributors