

Factor X HC Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51201**Specification**

Factor X HC Antibody - Product Information

Application	WB, E
Primary Accession	P00742
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	30 KDa

Factor X HC Antibody - Additional Information**Gene ID** 2159**Other Names**

Coagulation factor X, Stuart factor, Stuart-Prower factor, Factor X light chain, Factor X heavy chain, Activated factor Xa heavy chain, F10

Target/Specificity

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

Dilution

WB~~1:1000

E~~N/A

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

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

Factor X HC Antibody - Protein Information**Name** F10**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 (PubMed: [22409427](http://www.uniprot.org/citations/22409427)). Factor Xa activates pro-inflammatory signaling pathways in a protease-activated receptor (PAR)-dependent manner (PubMed: [24041930](http://www.uniprot.org/citations/24041930), PubMed: [30568593](http://www.uniprot.org/citations/30568593), PubMed: [34831181](http://www.uniprot.org/citations/34831181), PubMed: [18202198](http://www.uniprot.org/citations/18202198))

target="_blank">18202198). Up-regulates expression of protease- activated receptors (PARs) F2R, F2RL1 and F2RL2 in dermal microvascular endothelial cells (PubMed:35738824). Triggers the production of pro- inflammatory cytokines, such as MCP-1/CCL2 and IL6, in cardiac fibroblasts and umbilical vein endothelial cells in PAR-1/F2R-dependent manner (PubMed:30568593, PubMed:34831181). Triggers the production of pro-inflammatory cytokines, such as MCP-1/CCL2, IL6, TNF-alpha/TNF, IL- 1beta/IL1B, IL8/CXCL8 and IL18, in endothelial cells and atrial tissues (PubMed:24041930, PubMed:35738824, PubMed:9780208). Induces expression of adhesion molecules, such as ICAM1, VCAM1 and SELE, in endothelial cells and atrial tissues (PubMed:24041930, PubMed:35738824, PubMed:9780208). Increases expression of phosphorylated ERK1/2 in dermal microvascular endothelial cells and atrial tissues (PubMed:24041930, PubMed:35738824). Triggers activation of the transcription factor NF-kappa-B in dermal microvascular endothelial cells and atrial tissues (PubMed:24041930, PubMed:35738824). Activates pro-inflammatory and pro-fibrotic responses in dermal fibroblasts and enhances wound healing probably via PAR-2/F2RL1-dependent mechanism (PubMed:18202198). Activates barrier protective signaling responses in endothelial cells in PAR-2/F2RL1-dependent manner; the activity depends on the cleavage of PAR-2/F2RL1 by factor Xa (PubMed:22409427). Up-regulates expression of plasminogen activator inhibitor 1 (SERPINE1) in atrial tissues (PubMed:24041930).

Cellular Location

Secreted.

Tissue Location

Plasma; synthesized in the liver.

Factor X HC 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](#)

Factor X HC Antibody - Images

Factor X HC Antibody - Background

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.

Factor X HC Antibody - References

Messier T.L.,et al.Gene 99:291-294(1991).
Leytus S.P.,et al.Biochemistry 25:5098-5102(1986).
Fung M.R.,et al.Proc. Natl. Acad. Sci. U.S.A. 82:3591-3595(1985).
Kaul R.K.,et al.Gene 41:311-314(1986).
McMullen B.A.,et al.Biochemistry 22:2875-2884(1983).