

# Factor X HC Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51201

## Product Information

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Application	WB
Primary Accession	<a href="#">P00742</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54732

## Additional Information

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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
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

## Protein Information

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Name	F10
Function	<p>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:<a href="#">22409427</a>). Factor Xa activates pro-inflammatory signaling pathways in a protease-activated receptor (PAR)-dependent manner (PubMed:<a href="#">24041930</a>, PubMed:<a href="#">30568593</a>, PubMed:<a href="#">34831181</a>, PubMed:<a href="#">18202198</a>). Up-regulates expression of protease- activated receptors (PARs) F2R, F2RL1 and F2RL2 in dermal microvascular endothelial cells (PubMed:<a href="#">35738824</a>). 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:<a href="#">30568593</a>, PubMed:<a href="#">34831181</a>). 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:<a href="#">24041930</a>, PubMed:<a href="#">35738824</a>, PubMed:<a href="#">9780208</a>). Induces expression of adhesion molecules, such as ICAM1, VCAM1 and SELE, in endothelial cells and atrial tissues (PubMed:<a href="#">24041930</a>,</p>

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](#)).

<b>Cellular Location</b>	Secreted.
<b>Tissue Location</b>	Plasma; synthesized in the liver.

## Background

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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.

## References

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Leytus S.P.,et al.Biochemistry 25:5098-5102(1986).  
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