

F10 / Factor X Antibody
Sheep Polyclonal Antibody
Catalog # ALS14292**Specification**

F10 / Factor X Antibody - Product Information

Application	WB, IHC-P, E
Primary Accession	P00742
Reactivity	Human
Host	Sheep
Clonality	Polyclonal
Calculated MW	55kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A E~~N/A

F10 / Factor X Antibody - Additional Information**Gene ID** 2159**Other Names**

Coagulation factor X, 3.4.21.6, Stuart factor, Stuart-Prower factor, Factor X light chain, Factor X heavy chain, Activated factor Xa heavy chain, F10

Target/Specificity

Recognizes human Factor X.

Reconstitution & Storage

May be stored at 4°C for short-term only. For long-term storage and to avoid repeated freezing and thawing, aliquot and store at -20°C. Aliquots are stable for at least 12 months at -20°C.

Precautions

F10 / Factor X Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

F10 / Factor X 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). Factor Xa activates pro-inflammatory signaling pathways in a protease-activated receptor (PAR)-dependent manner (PubMed:24041930, PubMed:30568593, PubMed:34831181, PubMed: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.

Volume

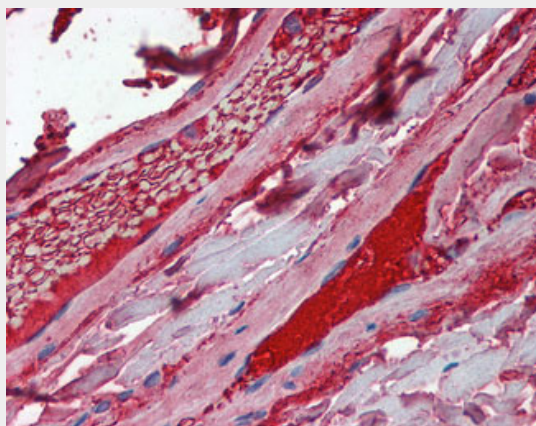
50 µl

F10 / Factor X 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](#)

F10 / Factor X Antibody - Images



Anti-F10 / Factor X antibody IHC staining of human vessels.

F10 / Factor X 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.

F10 / Factor X 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).