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# Factor X Antibody

Rabbit mAb
Catalog # AP91564

## Product Information

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|---|---|
| **Application** | WB, IHC |
| **Primary Accession** | P00742 |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Other Names** | Activated factor Xa heavy chain; Coagulation factor X; F10; factor Xa; FXA; Prothrombinase; Stuart factor; |
| **Isotype** | Rabbit IgG |
| **Host** | Rabbit |
| **Calculated MW** | 54732 |

## Additional Information

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| **Dilution** | WB 1:1000~1:5000 IHC 1:1000~1:500 |
| **Purification** | Affinity-chromatography |
| **Immunogen** | A synthesized peptide derived from human Factor X |
| **Description** | 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. |
| **Storage Condition and Buffer** | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

## Protein Information

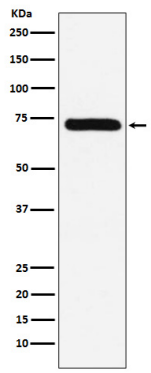
| | |
|---|---|
| **Name** | F10 |
| **Function** | Factor Xa is a vitamin K-dependent glycoprotein that converts prothrombin to thrombin in the presence of factor Va, calcium and phospholipid during blood clotting (PubMed:22409427, PubMed:39880037). Factor Xa activates pro-inflammatory signaling pathways in a protease- activated receptor (PAR)-dependent manner (PubMed:24041930, PubMed:30568593, PubMed:34831181, PubMed: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/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.

## Images




Western blot analysis of Factor X expression in HepG2 cell lysate.

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