



Prothrombin Monoclonal Antibody

Catalog No	YP-mAb-04306
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	F2
Immunogen	Synthesized peptide derived from the Internal region of human Prothrombin. AA range 420-470
Specificity	Prothrombin Monoclonal Antibody detects endogenous levels of Prothrombin protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	F2;Prothrombin;Activation peptide fragment 1;Activation peptide fragment 2; EC:3.4.21.5;Coagulation factor II
Observed Band	70kD
Calculated Molecular Weight	70kD
Cell Pathway	Secreted, extracellular space.
Tissue Specificity	Expressed by the liver and secreted in plasma.
Function	catalytic activity:Selective cleavage of Arg-[Gly bonds in fibrinogen to form fibrin and release fibrinopeptides A and B.,disease:Defects in F2 are the cause of various forms of dysprothrombinemia [MIM:176930].,disease:Genetic variations in F2 may be a cause of susceptibility to ischemic stroke [MIM:601367]; also known as cerebrovascular accident or cerebral infarction. A stroke is an acute neurologic event leading to death of neural tissue of the brain and resulting in loss of motor, sensory and/or cognitive function. Ischemic strokes, resulting from vascular occlusion, is considered to be a highly complex disease consisting of a group of heterogeneous disorders with multiple genetic and environmental risk factors.,function:Thrombin, which cleaves bonds after Arg and Lys, converts



fibrinogen to fibrin and activates factors V, VII, VIII, XIII, and, in complex with thrombomodulin, protei

Background

Coagulation factor II is proteolytically cleaved to form thrombin in the first step of the coagulation cascade which ultimately results in the stemming of blood loss. F2 also plays a role in maintaining vascular integrity during development and postnatal life. Peptides derived from the C-terminus of this protein have antimicrobial activity against *E. coli* and *P. aeruginosa*. Mutations in F2 lead to various forms of thrombosis and dysprothrombinemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015],

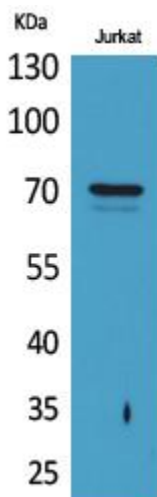
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using Prothrombin Monoclonal Antibody