



# Prothrombin Monoclonal Antibody

<b>Catalog No</b>	BYmab-04306
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB
<b>Gene Name</b>	F2
<b>Protein Name</b>	Prothrombin
<b>Immunogen</b>	Synthesized peptide derived from the Internal region of human Prothrombin. AA range 420-470
<b>Specificity</b>	Prothrombin Monoclonal Antibody detects endogenous levels of Prothrombin protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	F2; Prothrombin; Coagulation factor II
<b>Observed Band</b>	70kD
<b>Cell Pathway</b>	Secreted, extracellular space.
<b>Tissue Specificity</b>	Expressed by the liver and secreted in plasma.
<b>Function</b>	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

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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

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