

Prothrombin Antibody

Rabbit Polyclonal Antibody

Catalog # ABV11808

Product Information

Application	WB
Primary Accession	P00734
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG

Additional Information

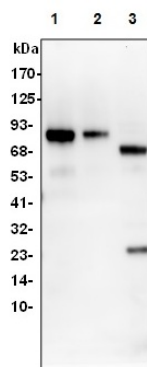
Positive Control	WB: h Prothrombin, h serum
Application & Usage	WB: 1-4 μ g
Alias Symbol	F2
Other Names	Coagulation factor II
Appearance	Colorless liquid
Formulation	In PBS pH 7.2, 0.01 % BSA, 0.03 % ProClin® and 50 % glycerol
Reconstitution & Storage	-20 °C
Background Descriptions	
Precautions	Prothrombin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Background

Prothrombin is a vitamin K-dependent plasma protein which is synthesized in the liver. Prior to secretion into plasma, prothrombin undergoes post-translational modification by a vitamin K-dependent carboxylase which converts ten specific glutamic acid residues to γ -carboxyglutamic acid (gla). Conversion to thrombin is a key step in the blood coagulation pathway and catalyzes the coagulation of fibrinogen. Clinically, cases of selective deficiency are rare, although, in cases of liver cirrhosis, prothrombin is decreased. During activation, prothrombin is cleaved at Arg271-Thr272 and at Arg320-Ser321 to a "pro" fragment (fragment 1.2) and thrombin, the latter of which is composed of two chains covalently linked by a disulfide bond. There is an additional thrombin feed-back cleavage at Arg284-Thr285 resulting in an additional 13 amino acids being removed from the mature thrombin "A" chain.

Images



Western blot with human Prothrombin antibody in:
Lane1: h Prothrombin, 10ng; Lane2: h Prothrombin, 2ng;
Lane3: h serum, 1 µg

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.