abcam

Product datasheet

Anti-Prothrombin antibody ab61388

製品の概要

製品名	Anti-Prothrombin antibody
製品の詳細	Rat monoclonal to Prothrombin
アプリケーション	**適用あり:** WB, ELISA
種交差性	**交差種:** Mouse
免疫原	Full length native purified Mouse Prothrombin

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	Preservative: None Constituents: 50% (v/v)Glycerol/water
精製度	Ion Exchange Chromatography
特記事項（精製）	Salt fractionation followed by gel filtration and ion exchange chromatography.
ポリ/モノ	モノクローナル
アイソタイプ	IgG

アプリケーション

Our Abpromise guarantee covers the use of **ab61388** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		Use at an assay dependent dilution. Predicted molecular weight: 70 kDa.
ELISA		Use at an assay dependent dilution.

ターゲット情報

機能	Thrombin, which cleaves bonds after Arg and Lys, converts fibrinogen to fibrin and activates

	factors V, VII, VIII, XIII, and, in complex with thrombomodulin, protein C. Functions in blood homeostasis, inflammation and wound healing.
組織特異性	Expressed by the liver and secreted in plasma.
関連疾患	Defects in F2 are the cause of factor II deficiency (FA2D) [MIM:613679]. It is a very rare blood coagulation disorder characterized by mucocutaneous bleeding symptoms. The severity of the bleeding manifestations correlates with blood factor II levels. Genetic variations in F2 may be a cause of susceptibility to ischemic stroke (ISCHSTR) [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. Defects in F2 are a cause of susceptibility to thrombosis (THR) [MIM:188050]. It is a multifactorial disorder of hemostasis characterized by abnormal platelet aggregation in response to various agents and recurrent thrombi formation. Note=A common genetic variation in the 3-prime untranslated region of the prothrombin gene is associated with elevated plasma prothrombin levels and an increased risk of venous thrombosis.
配列類似性	Belongs to the peptidase S1 family. Contains 1 Gla (gamma-carboxy-glutamate) domain. Contains 2 kringle domains. Contains 1 peptidase S1 domain.
翻訳後修飾	The gamma-carboxyglutamyl residues, which bind calcium ions, result from the carboxylation of glutamyl residues by a microsomal enzyme, the vitamin K-dependent carboxylase. The modified residues are necessary for the calcium-dependent interaction with a negatively charged phospholipid surface, which is essential for the conversion of prothrombin to thrombin.
細胞内局在	Secreted > extracellular space.
製品の状態	Cleaved into the following 4 chains: 1. Activation peptide fragment 1 2. Activation peptide fragment 2 3. Thrombin light chain 4. Thrombin heavy chain

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