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Datasheet for ABIN969368 anti-PROZ antibody

1 Image

Publications

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Overview

Quantity:	100 µL
Target:	PROZ
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Purified recombinant fragment of PROZ expressed in E. coli.
Clone:	2B4
lsotype:	lgG1
Purification:	purified

Target Details

Target:	PROZ
Alternative Name:	PROZ (PROZ Products)
Background:	Description: PROZ protein Z, vitamin K-dependent plasma glycoprotein. It is 62 kDa large and
	396 amino acids long. It has four domains: a gla-rich region, two EGF-like domains and a
	trypsin-like domain. It lacks the serine residue that would make it catalytically active as a serine
	protease. It is a member of the coagulation cascade, the group of blood proteins that leads to
	the formation of blood clots. It is vitamin K-dependent, and its functionality is therefore

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	impaired in warfarin therapy. It is a glycoprotein. Although it is not enzymatically active, it is
	structurally related to several serine proteases of the coagulation cascade: factors VII, IX, X and
	protein C. The carboxyglutamate residues (which require vitamin K) bind protein Z to
	phospholipid surfaces. The main role of protein Z appears to be the degradation of factor Xa.
	This is done by protein Z-related protease inhibitor (ZPI), but the reaction is accelerated 1000-
	fold by the presence of protein Z. Oddly, ZPI also degrades factor XI, but this reaction does not
	require the presence of protein Z. In some studies, deficiency states have been associated with
	a propensity to thrombosis. Others, however, link it to bleeding tendency, there is no clear
	explanation for this, as it acts physiologically as an inhibitor, and deficiency would logically have
	led to a predisposition for thrombosis.
	Aliases: protein Z, PZ
Molecular Weight:	45 kDa
Gene ID:	8858
HGNC:	8858

Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage
Publications	
Product cited in:	Jan, Adolfsson, Allaman, Buccarello, Magistretti, Pfeifer, Muhs, Lashuel: "Abeta42 neurotoxicity

is mediated by ongoing nucleated polymerization process rather than by discrete Abeta42

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Deshmukh, Salehzadeh, Metayer-Coustard, Fahlman, Nair, Al-Khalili: "Post-transcriptional gene silencing of ribosomal protein S6 kinase 1 restores insulin action in leucine-treated skeletal muscle." in: **Cellular and molecular life sciences : CMLS**, Vol. 66, Issue 8, pp. 1457-66, (2009) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis using PROZ mouse mAb against human plasma (1).