

Product Name: PROZ Mouse Monoclonal Antibody

Catalog #: AMM80755

For research use only.

Summary

Description Mouse monoclonal Antibody

HostMouseApplicationWB,ELISAReactivityHuman

ConjugationUnconjugatedModificationUnmodifiedIsotypeMouse IgG1ClonalityMonoclonalFormLiquid

Concentration 1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Buffer PBS containing 0.03% sodium azide.

Purification Affinity Purification

Application

Dilution Ratio WB 1:500-1:2000,ELISA 1:5000-1:20000

Molecular Weight 45kDa

Antigen Information

Gene Name PROZ

Alternative Names protein Z; PZ

 Gene ID
 8858.0

 SwissProt ID
 P22891

Immunogen Purified recombinant fragment of PROZ expressed in E. Coli.

Background

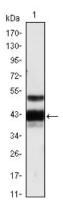
PROZ protein Z, vitamin K-dependent plasma glycoprotein. It is 62 kDa large and 396 amino acids long. It has four domains: a gla-rich region, two EGF-like domains and a trypsin-like domain. It lacks the serine residue that would make it catalytically active as a serine protease. It is a member of the 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 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.

Research Area

Image Data



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

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