

Product datasheet for **AM31845BT-N**

Prothrombin (F2) Mouse Monoclonal Antibody [Clone ID: CaPro-20]

Product data:

Product Type:	Primary Antibodies
Clone Name:	CaPro-20
Applications:	ELISA, WB
Recommended Dilution:	ELISA. Western blot.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human Prothrombin (CaPro-20) purified from plasma.
Specificity:	This antibody is specific for Human Prothrombin (CaPro-20).
Formulation:	PBS containing 0.02% Sodium Azide as preservative and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. Label: Biotin State: Liquid purified IgG fraction.
Concentration:	lot specific
Conjugation:	Biotin
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	coagulation factor II, thrombin
Database Link:	Entrez Gene 2147 Human P00734



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Background:	<p>Prothrombin (Factor 2 in the coagulation cascade) is proteolytically cleaved at two sites by Factor Xa to form thrombin (Factor IIa) in an important step of the coagulation cascade which ultimately results in the stemming of blood loss. Thrombin being the single most important constituent of the coagulation cascade in terms of its feedback activation roles. Prothrombin also plays a role in maintaining vascular integrity during development and postnatal life. Mutations in Prothrombin lead to various forms of thrombosis and dysprothrombinemia. Prothrombin is a 72 kDa blood clotting glycoprotein formed by and stored in the Liver. Prothrombin is present in the blood plasma and is converted to the key blood clotting agent thrombin, when blood vessels are damaged. Factor VII, another important haemostasis protein can be converted to VIIa by Factor IXa or Thrombin.</p>
Synonyms:	Coagulation factor II
Protein Families:	Druggable Genome, Protease, Secreted Protein
Protein Pathways:	Complement and coagulation cascades, Neuroactive ligand-receptor interaction, Regulation of actin cytoskeleton