

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Protein S in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody does not cross-react with recombinant mouse Protein S.
Source	Monoclonal Mouse IgG ₁ Clone # 391609
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Protein S Ala42-Trp670 Accession # P07225
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the [Technical Information](#) section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

The PROS1 gene encodes Protein S (PS), a ~70 kDa vitamin-K dependent plasma glycoprotein mainly synthesized by human hepatocytes. PS is a non-enzymatic cofactor in the degradation of coagulation factors Va and VIIIa and thus plays an anticoagulant role. Approximately 60% circulates in complex with C4b-binding protein. Free PS is a mixture of monomers and multimers. The 652 aa PS proprotein is heavily modified with 11 carboxyglutamates, one hydroxyaspartate, disulfides and glycosylation. Human Protein S shows 80% aa identity with mouse Protein S.

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