

## Product datasheet for BA548

### Protein S / PROS1 Human Protein

#### Product data:

Product Type:	Native Proteins
Description:	Protein S / PROS1 human protein, 50 µg
Species:	Human
Protein Source:	Plasma
Concentration:	lot specific
Purity:	>95% pure by SDS-PAGE. Single band at 69 kDa on SDS-PAGE gels, and a doublet upon incubation with 2-mercaptoethanol.
Buffer:	State: Liquid purified protein Buffer System: TRIS buffered saline containing 1mM Benzamidine
Preparation:	Liquid purified protein
Applications:	<b>ELISA.</b>
Protein Description:	Purified Protein S from Human plasma.
Note:	Caution: Donor material tested and found negative for HIV1/2 antibodies, HCV, Rapid Plasma Reagin and HBsAg. As no test can completely guarantee this material to be free of pathogens it should be handled as potentially infectious.
Storage:	Store the protein undiluted (in aliquots) at -20°C only. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u><a href="#">NP_000304</a></u>
Locus ID:	5627
Cytogenetics:	3q11.1
Synonyms:	PROS; PS21; PS22; PS23; PS24; PS25; PSA; THPH5; THPH6



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**Summary:** This gene encodes a vitamin K-dependent plasma protein that functions as a cofactor for the anticoagulant protease, activated protein C (APC) to inhibit blood coagulation. It is found in plasma in both a free, functionally active form and also in an inactive form complexed with C4b-binding protein. Mutations in this gene result in autosomal dominant hereditary thrombophilia. An inactive pseudogene of this locus is located at an adjacent region on chromosome 3. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Oct 2015]

**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** Complement and coagulation cascades