

Anti-Human Protein S (Sheep)

Whole IgG, 10 mg



Ref#: SAPS-IG
Lot#: xxxxxx
Exp. Date: xxxx-xx

Store at -10 to -20°C

For Research Use Only
Not for Use in Diagnostic Procedures
For *in vitro* Use Only

Immunogen:	Human Protein S (from human plasma)		
Format:	Whole IgG from antisera in 10 mM HEPES, pH 7.3, 150 mM NaCl, 50% (v/v) glycerol		
Host:	Sheep		
Storage:	Store between -10 and -20°C. Vial should be tightly capped. Do not store in frost-free freezers. Allow product to warm to room temperature and gently mix before use		
Total Protein:	10 mg		
Volume:	1 vial containing 1.00 mL anti-human, whole IgG		
Concentration:	10 mg/mL whole IgG by Absorbance; Extinction Coefficient $E^{1\%}_{280} = 13.4$		
Specificity:	Specificity demonstrated by immunoelectrophoresis and ELISA methods		
Application:	Suitable as a source of antibodies For Research Use Only. Not for Use in Diagnostic Procedures. For <i>in vitro</i> use only		
Species (Cross) Reactivity:	Dog: *	Human: **	Mouse: -
	Pig: *	Rabbit: -	Rat: -

Human Protein S (molecular weight about 77kDa) is a vitamin K-dependent plasma glycoprotein synthesized in the liver and composed of a single polypeptide chain. Protein S is a non-enzymatic cofactor to APC for the inactivation of FVa and FVIIIa. Total Protein S concentration in human plasma is about 25 µg/mL (325 µM). About 40% of plasma Protein S exists in free form, and 60% is non-covalently complexed with C4b Binding Protein (C4BP). Complex formation does not lead to inactivation of C4BP, although Protein S no longer functions as a cofactor.