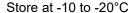
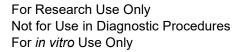
## Anti-Human Protein S (Sheep) Whole IgG, 10 mg

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







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 <sup>1%</sup> <sub>280</sub> = 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  $\mu$ g/mL (325  $\mu$ M). 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.