

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Serpin A5/Protein C in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human Serpin A1, A3, F2, C1, or recombinant mouse Serpin A5 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 210326
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Serpin A5/Protein C His20-Pro406 Accession # P05154
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Human Serpin A5/Protein C Inhibitor (Catalog # 1266-PI)
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human Serpin A5/Protein C Inhibitor (Catalog # 1266-PI), see our available Western blot detection antibodies

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Serpin A5 is a member of the Serpin superfamily and inhibits a variety of serine proteases such as protein C, plasminogen activators, thrombin, factor Xa, several kallekreins and acrosin (1). Serpin A5 is synthesized in the liver and secreted in plasma. It is found in numerous steroid-responsive organs and has been detected in saliva, cerebral spinal fluid, amniotic fluid, tears and semen. Because of its protease targets and regulated expression patterns, Serpin A5 has been proposed to play a role in processes such as blood coagulation, fertilization and carcinogenesis (2, 3). Similar to Serpins C1 and D1, its thrombin inhibitory activity is enhanced by heparin.

References:

1. Silverman, G.A. *et al.* (2001) *J. Biol. Chem.* **276**:33293.
2. Palmier, D. *et al.* (2002) *J. Biol. Chem.* **277**:40950.
3. Geiger, M. *et al.* (1996) *Immunopharmacology* **32**:53.