

# Human Serpin A5/Protein C Inhibitor Alexa Fluor® 750-conjugated Antibody

Monoclonal Mouse IgG<sub>2A</sub> Clone # 210326

Catalog Number: IC1266S

100 µg

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	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.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 210326
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human Serpin A5/Protein C His20-Pro406 Accession # P05154
<b>Conjugate</b>	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and 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.

	Recommended Concentration	Sample
<b>Intracellular Staining by Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	HepG2 human hepatocellular carcinoma cell line

## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## BACKGROUND

Serpin A5 is the 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.

## PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.