

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Serpin B8/Proteinase Inhibitor 8 in direct ELISAs. In direct ELISAs, approximately 25% cross-reactivity with recombinant mouse (rm) Serpin B8 is observed. No cross-reactivity with recombinant human Serpin A1, A3, A4, A5, A6, A9, A11, A12,
Source	Monoclonal Mouse IgG _{2A} Clone # 423023
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf21-derived recombinant human Serpin B8/Proteinase Inhibitor 8 Asp2-Pro374 Accession # P50452
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% 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.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Serpin B8 (serine proteinase inhibitor-clade B #8; also PI8) is a 42-45 kDa, cytoplasmic and secreted member of the ovalbumin (clade B)-subfamily, Serpin superfamily of protease inhibitors. It is produced by multiple cell types and shows inhibitory activity towards furin and other proteinases such as chymotrypsin. Human Serpin B8 is 374 amino acids (aa) in length. Although it has no signal sequence, it is released by platelets. The active inhibitor site lies between Arg336 and Arg342. One potential isoform shows a 2 aa substitution for the C-terminal 134 amino acids. Full length human Serpin B8 shares 78% and 83% aa identity with mouse and canine Serpin B8, respectively.

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.