

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Serpin F2/ α_2 -Antiplasmin in direct ELISAs and Western blots. In Western blots, approximately 15% cross-reactivity with recombinant human (rh) Serpin F2 and less than 1% cross-reactivity with recombinant mouse (rm) Serpin C1, rmSer
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Serpin F2/ α_2 -Antiplasmin Val28-Lys491 Accession # Q61247
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	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 F2 is a member of the Serpin superfamily and the primary physiological inhibitor of the serine protease plasmin, which is responsible for the dissolution of fibrin clots (1, 2). In addition to plasmin, Serpin F2 is also an efficient inhibitor of trypsin and chymotrypsin (3). Liver and kidney are major sites of Serpin F2 production and other tissues such as muscle, intestine, central nervous system, and placenta also express its mRNA at a moderate level (3). The tissue expression pattern of Serpin F2 indicates that it is a key regulator of plasmin-mediated proteolysis in these tissues. Mouse Serpin F2 is synthesized as a 491 amino acid precursor with a 27 amino acid signal peptide. The secreted protein has a short propeptide (residues 28-39) and a mature chain (residues 40-491). For human Serpin F2, the presence of the propeptide did not affect its ability to inhibit plasmin but reduced its cross-linking ability to fibrin (4).

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.