

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Serpin E2/PN1 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human (rh) Serpin A1, A3, A4, A5, A12, B6, B8, B9, C1, D1, F2, I1, recombinant mouse Serpin E2, or rhPEDF is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 449888
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Serpin E2/PN1 Met1-Pro397 Accession # NP_001130000
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 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.

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 E2, also known as protease nexin I or glial-derived nexin (GDN), is a member of the Serpin superfamily of the serine protease inhibitors (1). Serpin E2 is a potent inhibitor of thrombin, plasmin and plasminogen activators (2). It is differentially expressed during neuronal differentiation and is able to transform human embryonic kidney cells into neuron-like cells (3). Its over-expression in mice leads to progressive neuronal and motor dysfunction in these animals (4). It is also over-expressed in the majority of pancreatic carcinoma as well as gastric and colorectal cancer samples whereas it is weakly expressed in all normal pancreas and chronic pancreatitis tissue samples (5). It plays an important role in controlling male fertility because its knockout male mice show a marked impairment in fertility from the onset of sexual maturity and its abnormal expression is found in the semen of men with seminal dysfunction (6). The deduced amino acid sequence of rhSerpin E2 is the same as that in NP_001130000, which predicts Arg329 in its 397 amino acid residues (7). An alternatively splice form predicts Thr-Gly at positions 329 and 330 in its 398 amino acid sequence (8-10).

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.