

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Prostatin/Prss8 in direct ELISAs and Western blots. In direct ELISAs, less than 15% cross-reactivity with recombinant mouse Prostatin/Prss8 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 530622
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Prostatin/Prss8 Ala33-Gly319 Accession # Q16651
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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

Prostatin, also known as Prss8 and channel activating protease 1, is a 40 kDa serine protease with trypsin-like substrate specificity that is a member of the peptidase S1 family. The enzyme is synthesized from a 343 amino acid (aa) preproenzyme that contains a 29 aa signal peptide, a propeptide (aa 30-32) and a 290 aa mature chain. A second propeptide (aa 323-343) contains a 21 aa transmembrane region (GPI anchor) which can be proteolytically processed to generate a secreted form of the enzyme. The mature chain forms a heterodimer made up of a light chain (aa 33-44) and a heavy chain (aa 45-322) that are connected by disulfide bonds. In addition, aa 45-286 constitute a peptidase S1 domain, and aa 159 is a potential site for N-linked glycosylation. Mature human Prostatin is 79% and 78% aa identical to mature mouse and rat Prostatin, respectively. Prostatin is highly expressed in the prostate gland, and is expressed at lower levels in the lung, kidney, salivary gland, and pancreas. It activates amiloride-sensitive sodium channels.

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.