

#### DESCRIPTION

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|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | 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.                                                                                                      |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 530622                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Chinese hamster ovary cell line CHO-derived recombinant human Prostatin/Prss8 Ala33-Gly319<br>Accession # Q16651                                                                                                                                                            |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>         | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunoprecipitation</b>  | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

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|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <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> | 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.

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