

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Prostasin/Prss8 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human Prostasin is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 430814
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Prostasin/Prss8 Ala30-Gln289 Accession # NP_579929
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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

Prostasin encoded by the Prss8 gene, also known as channel activating protease 1, is a serine protease with a trypsin-like substrate specificity (1, 2). The preproenzyme possesses a C-terminal membrane-spanning domain that can be proteolytically processed to generate a secreted form of the enzyme. The secreted form of prostasin has been purified from seminal fluid (2). Prostasin is highly expressed in the prostate gland, and is expressed at lower levels in the lung, kidney, liver, salivary gland, and pancreas (3). The peptidase activity of prostasin is involved in the regulation of epithelial sodium channels (4, 5). The enzymatic activity of Prostasin is effectively inhibited by HAI-1 and HAI-2B (Catalog # [1141-PI](#) and [1107-PI](#)).

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