**Species Reactivity**  
Mouse

**Specificity**  
Detects mouse Prostasin/Prss8 in ELISAs and Western blots. In sandwich immunoassays, less than 0.2% cross-reactivity is observed with recombinant human Prostasin.

**Source**  
Polyclonal Goat IgG

**Purification**  
Antigen Affinity-purified

**Immunogen**  
Mouse myeloma cell line NS0-derived recombinant mouse Prostasin/Prss8  
Accession # Q99L44

**Formulation**  
Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

**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.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Recommended Concentration</th>
<th>Western Blot</th>
<th>0.1 μg/mL</th>
<th>Recombinant Mouse Prostasin/Prss8 (Catalog # 2968-SE)</th>
</tr>
</thead>
</table>

**Mouse Prostasin/Prss8 Sandwich Immunoassay**

<table>
<thead>
<tr>
<th>Reagent</th>
<th>Standard</th>
<th>Mouse Prostasin/Prss8 Antibody (Catalog # AF2968)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Reagent</th>
<th>Standard</th>
<th>Mouse Prostasin/Prss8 Biotinylated Antibody (Catalog # BAF2968)</th>
</tr>
</thead>
</table>

**PREPARATION AND STORAGE**

**Reconstitution**  
Reconstitute at 0.2 mg/mL in sterile PBS.

**Shipping**  
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.  
*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at 20 to 70 °C.*

**Stability & Storage**

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  
- 12 months from date of receipt, -20 to -70 °C as supplied.  
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.  
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

**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). Secreted from NS0 cells as the active form, the purified recombinant mouse (rm) Prostasin most likely consists of a disulfide bond-linked two chains with N-terminal sequences of I_{45}GSGGSAKPG and A_{30}DGTE, respectively (3). The enzymatic activity of rmProstasin is effectively inhibited by rmHAI-1 and rmHAI-2B (Catalog # 1141-PI and 1107-PI).

**References:**