Mouse Prostasin/Prss8 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF2968

DESCRIPTION

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 Ala30-Gln289 Accession # Q99L44
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

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.*

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Mouse Prostasin/Prss8 (Catalog # 2968-SE)
Mouse Prostasin/Prss8 Sandwich Immunoassay		**Reagent**
ELISA Capture	0.2-0.8 µg/mL	Mouse Prostasin/Prss8 Antibody (Catalog # AF2968)
ELISA Detection	0.1-0.4 µg/mL	Mouse Prostasin/Prss8 Biotinylated Antibody (Catalog # BAF2968)
Standard		Recombinant Mouse Prostasin/Prss8 (Catalog # 2968-SE)

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}TGGGSAKPG 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:

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2. Yu J.X. *et al.* (1994) J. Biol. Chem. **269**:18843.
3. Yu J.X. *et al.* (1995) J. Biol. Chem. **270**:13483.
4. Caldwell R.A. *et al.* (2004) Am. J. Physiol. Cell Physiol. **286**:C190.
5. Tong Z. *et al.* (2004) Am. J. Physiol. Lung Cell Mol. Physiol. **287**:L928.

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