

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Marapsin in ELISAs and Western blots. In sandwich ELISAs, less than 0.3% cross-reactivity with recombinant human Marapsin and recombinant mouse Prostaticin is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Marapsin Ala23-Thr290 Accession # Q8BJR6
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. 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.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Mouse Marapsin/Pancreasin (Catalog # 1989-SE)
Mouse Marapsin/Pancreasin Sandwich Immunoassay		Reagent
ELISA Capture	2-8 µg/mL	Mouse Marapsin/Pancreasin Antibody (Catalog # MAB19891)
ELISA Detection	0.1-0.4 µg/mL	Mouse Marapsin/Pancreasin Biotinylated Antibody (Catalog # BAF1989)
Standard		Recombinant Mouse Marapsin/Pancreasin (Catalog # 1989-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.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 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

Marapsin, Pancreasin, and channel-activating protease 2 (CAP-2), encoded by the Prss27 gene, are different names given for the same serine protease that is expressed strongly in the pancreas (1). The mouse protein is synthesized with a signal peptide (amino acid residues 1-22), a pro peptide (residues 23-37) and a mature chain (residues 38-290) corresponding to the serine protease domain. The full-length protein was expressed and the secreted protein purified. The N-terminal sequencing results indicate that the purified protein is a disulfide bond-linked dimer formed between the pro peptide and the mature chain. The active enzyme has low activity against peptide substrates tested, but high activity against thioester substrates. The peptidase activity is inhibited by 20 mM benzamidine.

References:

1. Bhagwandin, V.J. *et al.* (2003) J. Biol. Chem. **278**:3363.