

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Marapsin in ELISAs. In sandwich immunoassays, no cross-reactivity or interference with recombinant human Marapsin or recombinant mouse Proastasin was observed.
Source	Monoclonal Rat IgG _{2B} Clone # 246406
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Marapsin/Pancreasin Ala23-Thr290 Accession # Q8BJR6
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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.

ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
ELISA Detection (Matched Antibody Pair)	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

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.

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