

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Marapsin/Pancreasin in ELISAs and Western blots. In sandwich immunoassays, less than 0.1% cross-reactivity with recombinant mouse Marapsin is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Marapsin/Pancreasin Ala23-Lys290 Accession # Q9BQR3
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.
Neutralization	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	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) are different names for the same serine protease that is expressed strongly in the pancreas (1, 2). The protein is synthesized with a signal peptide (amino acid residues 1-22), a pro peptide (residues 23-34) and a mature chain (residues 35-290) 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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