

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PAM in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human PAM Phe21-Val817 Accession # P19021
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 Human PAM

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. <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

PAM (Peptidyl-Gly α-amidating monooxygenase) is a dual-function, 95-110 kDa protein that belongs to both the lyase and monooxygenase enzyme families. It is expressed in a variety of endocrine and exocrine glands and catalyzes the conversion of C-terminal Gly into amidated residues. Human ProPAM is a 953 amino acid (aa) type I transmembrane glycoprotein. It contains an 833 aa extracellular domain (ECD) (aa 31-863) and an 86 aa cytoplasmic tail. The ECD shows one PHM/monooxygenase region (aa 40-347) and a PAL/lyase domain (aa 495-817). Both regions are enzymatically active. Alternative splicing may generate a soluble form (aa 31-828), and remove aa 388-494 that link the two embedded enzyme segments. Over aa 21-817, human PAM is 91% aa identical to mouse PAM.