

#### DESCRIPTION

|                                                                                                                                                                                                         |                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                           |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human PAM in direct ELISAs and Western blots.                                           |
| <b>Source</b>                                                                                                                                                                                           | Polyclonal Goat IgG                                                                             |
| <b>Purification</b>                                                                                                                                                                                     | Antigen Affinity-purified                                                                       |
| <b>Immunogen</b>                                                                                                                                                                                        | Mouse myeloma cell line NS0-derived recombinant human PAM<br>Phe21-Val817<br>Accession # P19021 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm                 |
| <b>Formulation</b>                                                                                                                                                                                      | 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.

**Western Blot** 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

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.

#### PRODUCT SPECIFIC NOTICES

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