

DESCRIPTION

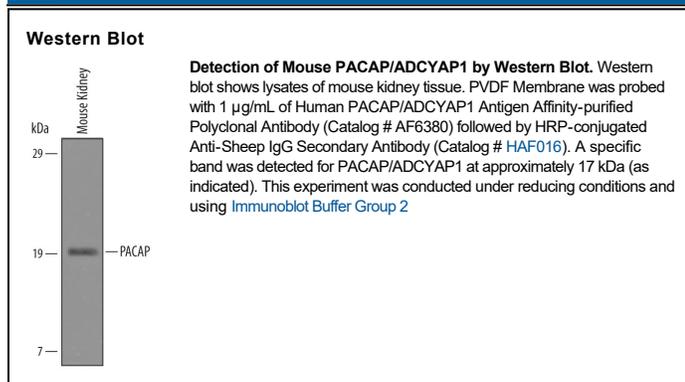
Species Reactivity	Mouse
Specificity	Detects mouse PACAP/ADCYAP1 in direct ELISAs and Western blots. In direct ELISAs, approximately 12% cross-reactivity with recombinant human PACAP is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse PACAP/ADCYAP1 Pro26-Leu175 Accession # O70176
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	1 µg/mL	See Below

DATA



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

PACAP (Pituitary adenylate cyclase activating polypeptide) is a 17 kDa (predicted) member of the VIP/secretin/glucagon/GHRH superfamily of peptides. It is expressed by anterior pituitary gonadotrophs, neurons in the CNS and PNS, spermatids, adrenal chromaffin cells, plus macrophages and lymphocytes. PACAP has multiple effects. On mast cells, it induces histamine release; on lymphocytes, PACAP promotes Th2 development; in bone, PACAP inhibits osteoclastogenesis; and in the pituitary, PACAP facilitates the release of LH (in females), GH and α-MSH. Mouse PACAP precursor is 151 amino acids (aa) in length (aa 25-175). It undergoes proteolytic processing to generate two C-terminal amidated peptides termed PACAP-38 (aa 131-168) and PACAP-27 (aa 131-157). In general, PACAP-38 represents the dominant form. However, the ratio between the -38 and -27 forms differs in a cell-specific manner. Over aa 25-175, mouse PACAP shares 95% and 81% aa identity with rat and human PACAP, respectively.