



BMA BIOMEDICALS



Peninsula Laboratories

T-5042

Guinea Pig anti PACAP-38 (human, mouse, ovine, porcine, rat) Pituitary Adenylate Cyclase Activating Polypeptide-38 [UniProt P18509]

Pituitary adenylate cyclase-activating polypeptide (PACAP) and Vasoactive Intestinal Peptide (VIP), as well as the three classes of G-protein-coupled receptors mediating their effects, are widely distributed in the central nervous system (CNS) and peripheral tissues. These peptides are reported to have many physiological or pharmacological effects in different tissues. Particularly important are their roles in glucose metabolism and on islets; their anti-inflammatory, cytoprotective effects, their CNS neuroprotective effects, and their possible roles in diseases such as schizophrenia and chronic depression. PACAP-38 is a neuropeptide that serves as a neuronal survival factor and it has a greater potency for stimulation of adenylyl cyclase.

This antibody was generated by immunization of guinea pigs with PACAP-38 coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Lot number:	A18PO25048
Host species:	Guinea pig
Quantity:	50µl
Format:	Neat undiluted antiserum, lyophilized, packaged under nitrogen. Reconstitute by adding 50µl distilled water. This will give the equivalent of undiluted antiserum.
Stability:	Original vial: at least one year at 4° - 8°C from date of delivery. Minimize repeated thawing and freezing of the antiserum by freezing aliquots at -20°C or below.
Applications:	This antibody has been tested and validated in ELISA against PACAP-38 and in immunohistochemistry (IHC). Other applications like FACS or Western Blot may work as well. Optimal dilutions should be determined by the end user. Please see www.bma.ch for protocols and general information.
Immunogen:	Synthetic peptide H-His-Ser-Asp-Gly-Ile-Phe-Thr-Asp-Ser-Tyr-Ser-Arg-Tyr-Arg-Lys-Gln-Met-Ala-Val-Lys-Lys-Tyr-Leu-Ala-Ala-Val-Leu-Gly-Lys-Arg-Tyr-Lys-Gln-Arg-Val-Lys-Asn-Lys-NH ₂ coupled to carrier protein.

Cross-Reactivity:

PEPTIDE:	%:
PACAP-38 (human, mouse, ovine, porcine, rat)	100
PACAP-38 (16-38) (human, chicken, mouse, ovine, porcine, rat)	100
PACAP (31-38) (human, chicken, mouse, ovine, porcine, rat)	100
PACAP-27 (human, mouse, ovine, porcine, rat)	0.01
VIP (human, bovine, porcine, rat)	0
CRF (human, rat)	0
ACTH (1-39) (human)	0
BNP-32 (human)	0
ANF (1-28)	0
Adrenomedullin (human)	0

Cross reactivity data is based on corresponding RIA kit S-2168

Related Products: T-4473: anti PACAP-38, undiluted antiserum (hu, ms, ov, po, rt)
T-4471: anti PACAP-38, diluted antiserum (hu, ck, ms, ov, po, rt)
S-1322: ELISA, high sensitivity for extracted samples (hu, ms, ov, po, rt)
T-4472: anti PACAP-38, purified IgG (hu, ms, ov, po, rt)

This product contains no preservative and is intended for laboratory use and research purposes only. Purchase of this product does not include authorization to use it in diagnostic or therapeutic applications.