



BMA BIOMEDICALS



Peninsula Laboratories

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## T-4468

### **Rabbit anti PACAP-38 (16-38) (hu, ms, ov, po, rt) [Uniprot: P18509, O70176, P16613, P14535, P13589]**

Pituitary Adenylate Cyclase-Activating Polypeptide-38, also known as PACAP-38, is a 38 amino acid neuropeptide that has substantial sequence homology (68%) to vasoactive intestinal peptide (VIP). It derives from a 176-amino acid precursor (preproPACAP), and it was discovered as an ovine hypothalamic neuropeptide. PACAP-38 is reported to serve as a neuronal survival factor and it has a greater potency for stimulation of adenylyl cyclase. Also, it stimulates insulin secretion from islets in a glucose-dependent manner at femtomolar concentrations, acting as an insulinotropic factor.

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

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#### **TECHNICAL AND ANALYTICAL CHARACTERISTICS**

<b>Lot number:</b>	981832
<b>Host species:</b>	Rabbit IgG
<b>Quantity:</b>	400µg
<b>Format:</b>	Protein A affinity purified from antiserum, lyophilized, packaged under nitrogen. Reconstitute by adding 0.2ml distilled water. This stock solution contains 2mg/ml IgG, phosphate buffer saline pH 7.4 (PBS), and 0.02% (w/v) Thimerosal as a preservative.
<b>Stability:</b>	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.
<b>Applications:</b>	This antibody has been tested and validated in ELISA against PACAP-38. Other applications like immunohistochemistry (IHC), FACS or Western Blot may work as well. Optimal dilutions should be determined by the end user. Please see <a href="http://www.bma.ch">www.bma.ch</a> for protocols and general information.
<b>Immunogen:</b>	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 <sub>2</sub> coupled to carrier protein.

**Cross-Reactivity:**

<b>PEPTIDE:</b>	<b>%:</b>
PACAP-38 (16-38) (human, chicken, mouse, ovine, porcine, rat)	100
PACAP-38 amide (human, mouse, ovine, porcine, rat)	100
PACAP-38 (31-38) (human, mouse, ovine, porcine, rat)	0
VIP (human, bovine, porcine, rat)	0
ACTH (1-39) (human)	0
BNP-32 (human)	0

Related Products: S-1322: ELISA, high sensitivity for extracted samples (hu, ms, ov, po, rt)  
T-4469: anti PACAP-38 (16-38), neat antiserum (hu, ms, ov, po, rt)  
T-4467: anti PACAP-38 (16-38), diluted antiserum (hu, ms, ov, po, rt)  
T-4472: anti PACAP-38, purified IgG (hu, ms, ov, po, rt)  
T-4471: anti PACAP-38, diluted antiserum (hu, ms, ov, po, rt)  
T-5042: anti PACAP-38, neat antiserum (hu, ms, ov, po, rt)

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This product contains Thimerosal as a 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.

T-4468

rabbit IgG

10.11.2020