BMA BIOMEDICALS

Peninsula Laboratories

Rabbit anti PACAP-38 (16-38)

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 (16-38) coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Catalog Number:	T-4469 (Lot A17907)
Clonality:	Polyclonal
Host species:	Rabbit
Reactivity:	Human
Quantity:	50 µl
Format:	Neat undiluted antiserum, lyophilized, packaged under nitrogen. Reconstitute by adding 50 µl distilled water. This will give the equivalent of undiluted antiserum.
Stability and Storage:	Original vial: 1 year at 4° - 8°C from date of purchase. Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
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-NH2 coupled to carrier protein.
Protein database:	n/a

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

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Cross-Reactivity:

PEPTIDE:	%:
CRF (human, rat)	0
ACTH (1-39) (human)	0
BNP-32 (human)	0
ANF (1-28)	0
Adrenomedullin (human)	0

Applications:

Tested in immunohistochemistry (IHC) and ELISA against PACAP-38 (16-38). Other applications like FACS or Western Blot may work as well.
Optimal dilutions should be determined by the end user.

Please see **bma.ch** for protocols and general information.

Approximate working dilution for IHC:
Frozen sections: not tested yet.
Paraffin sections: 1:500; recommended Proteinase K pre-treatment.

Related Products:

S-1322: ELISA, high sensitivity for extracted samples (hu, ms, ov, po, rt)
T-4468: anti PACAP-38 (16-38), purified IgG (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)

This product contains no preservative and is intended for laboratory use and research purposes only. Not for diagnostic or therapeutic applications.

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