



BMA BIOMEDICALS



Peninsula Laboratories

T-5029

Guinea Pig anti Vasoactive Intestinal Peptide (VIP) (human, mouse, rat) [UniProt: P01282, P32648, P01283]

Vasoactive intestinal peptide (VIP) is a 28 amino acid neuropeptide that is vasoactive in the intestine. It belongs to a glucagon/secretin superfamily, the ligand of class II G protein-coupled receptors. VIP is produced in many tissues of vertebrates including the gut, pancreas, and suprachiasmatic nuclei of the hypothalamus in the brain. VIP functions as neuromodulator and neurotransmitter, and it is known to regulate muscle activity, epithelial cell secretion, and blood flow in the gastrointestinal tract.

This antibody was generated by immunization of guinea pigs with Vasoactive Intestinal Peptide coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

- Lot number:** 970305-2
- Host species:** Guinea pig IgG
- Quantity:** 50ml diluted antiserum, lyophilized
- Format:** This polyclonal antibody is supplied as a lyophilized powder. The powder should be rehydrated with 50ml RIA buffer. Upon reconstitution to 50ml total volume, the solution contains 0.1M sodium phosphate buffer (pH 7.4), 0.05M NaCl, 0.1% BSA, 0.01% NaN₃, and 0.1% Triton X-100. Store at 4°C. This should ensure antibody stability for approximately one month.
- 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 Vasoactive Intestinal Peptide. Other applications like immunohistochemistry (IHC), 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-Ala-Val-Phe-Thr-Asp-Asn-Tyr-Thr-Arg-Leu-Arg-Lys-Gln-Met-Ala-Val-Lys-Lys-Tyr-Leu-Asn-Ser-Ile-Leu-Asn-NH₂ coupled to a carrier protein.

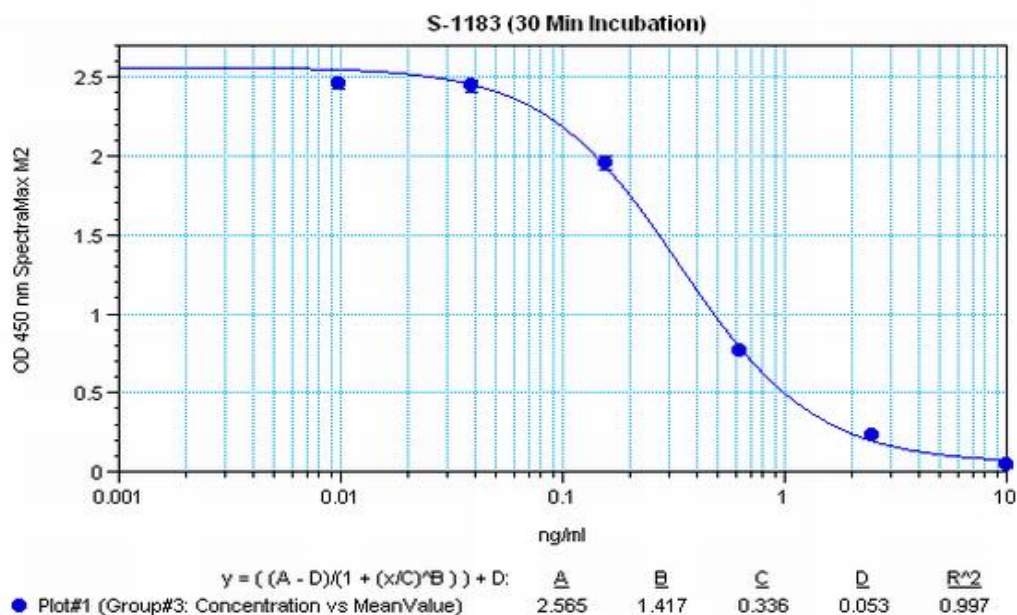
Cross-Reactivity:

PEPTIDE:	%
VIP (human, mouse, rat)	100
VIP (Guinea Pig)	100
VIP (10-28) (human, porcine, rat)	100

Cross-Reactivity (continued):

VIP (Chicken)	<1
PACAP-27 (human, mouse, ovine, porcine, rat)	<0.02
VIP (1-12) (human, bovine, porcine, rat)	0
PHM-27 (human)	0
Substance P	0
Endothelin-1 (human, porcine, canine, rat, mouse, bovine)	0
Secretin (porcine)	0
Glucagon (1-29) (human, bovine, porcine)	0
Galanin (rat)	0
Somatostatin-14	0
PACAP-38 (human, mouse, ovine, porcine, rat)	0

Typical titration curve of VIP in a competitive ELISA with the antibody from rabbit host:



Related Products: S-1183: ELISA, high sensitivity for extracted samples (hu, ms, rt).
S-1201: ELISA, extraction-free for human serum and plasma samples.
S-1202: ELISA, extraction-free for rat serum and plasma samples
S-1471: ELISA, extraction-free for mouse serum and plasma samples
T-4245: purified IgG, host: rabbit
T-4246: neat antiserum, host: rabbit

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.

T-5029

diluted antiserum - hu, ms, rt

24.6.2020