

Product Specification Sheet

VIP Antibodies

Cat. # VIP16-P	Mouse VIP control peptide # 1	SIZE: 100 ug
Cat. # VIP16-A	Rabbit Anti-Mouse VIP IgG # 1 (aff pure)	SIZE: 100 ug

Vasoactive intestinal peptide (VIP) is a 28-amino acid peptide (human, chr 6q26-q27). Expressed and secreted by neurons innervating primary and secondary immune organs such as lymph nodes. VIP is a potent neurotrophic factor causes vasodilation, lowers arterial blood pressure, and relaxes the smooth muscle of trachea, stomach and gall bladder. VIP also modulates several T-lymphocyte activities including motility, cytokine production, proliferation and apoptosis, VIP exerts its biological activity by binding to two closely related class II G-protein-coupled receptors VPAC-1 and VPAC-2 beside this VIP has its own receptors **VIPR1&2** (Vasoactive Intestinal Polypeptide Receptor 1&2) and **VIPRRP** (VIP receptor-gene repressor protein). VIP shows similarities to glucagon, secretin and gastric inhibitory peptide (GIP) as such it has been considered a member of the glucagon-secretin family. The VIP is 100% conserved in mouse, rat and human. VIP is considered to be a viable candidate for the development of treatments for rheumatoid arthritis, since treatment with VIP significantly reduced incidence of severity of arthritis, the therapeutic effect of VIP was associated with downregulation of both inflammatory and autoimmune components of the disease.

Source of Antigen and Antibodies

Antigen	15-aa peptide from Mouse VIP (1) ; Designation (VIP16-P, control peptide /blocking peptide) conjugated to KLH; epitope location ~ C-terminus
Ab Host/type	Rabbit, Polyclonal IgG, purified over antigen-agarose (Cat # VIP16-A) purified over antigen-agarose column
2-Ab	Cat # 20320, goat anti-rabbit IgG-HRP (AP, biotin, FITC conjugates also available).
-ve control	Cat # 20009-1, Rabbit (non-immune) purified Serum IgG suitable for use as -ve control antibody for Western, IHC, ELISA etc

Form & Storage of Antibodies/Peptide Control

Affinity pure IgG
100 ug/100ul solution lyophilized powder
Supplied in **Buffer:** PBS+0.1% BSA
Reconstitute powder in PBS at 1mg/ml

Control/blocking peptide
100 ug/100 ul solution lyophilized powder
Supplied in **Buffer:** PBS pH 7.5,
Reconstitute powder in PBS at 1 mg/ml.

Storage

Short-term: unopened, undiluted liquid vials at -20OC and powder at 4oC or -20oC..

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder.

Storage

Short-term: unopened, undiluted vials for less than a week at 4oC.

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder.

Recommended Usage

Western Blotting (1-10 ug/ml for affinity pure antibody using ECL technique).

ELISA: Control peptide can be used to coat ELISA plates at 1 ug/ml and detected with antibodies (0.5-1 ug/ml for affinity pure).

Histochemistry & Immunofluorescence: Not tested. We recommend the use of aff pure IgG at 2-20 ug/ml.

Specificity & Cross-reactivity

The Mouse VIP16-P control peptide is 100% conserved in rat, human and mouse. No significant homology is detected with other species. Antibody cross-reactivity in various species has not been studied. Control peptide, because of its low mol. Wt (<3 kDa), is not suitable for Western. It should be used for ELISA or antibody blocking experiments (use 5-10 ug control peptide per 1 ug of aff pure IgG or 1 ul antiserum) to confirm antibody specificity (see detailed protocol at the web site).

General References: (1) Lin Pei (1998) JBC,273, 19902-19908; Lin Pei (2000) JBC, 275, 1176-1182; Bodner, M (1985) PNAS, 82, 3548-3551; Delgado, M (2001) Nature Med, 7, 563-568; Gotoh, E.(1998) Biochem. Int, 17, 555-562.

(2) Citations of ADI's Antibodies (see web site for updated list)

Micci M-A, 2005, Gastroenterology, 129, 1817-1824, IF mouse tissues

*This product is for In vitro research use only.

Related material available from ADI

Antibodies and Peptides: VIP, VIPR, VIPRRP, Glucagon, GLP.

VIP16-A-P 71208A

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