

Product Specification Sheet

**VIPRRP Antibodies**

Cat. # VIPRRP11-P	<b>Rat</b> VIPRRP control peptide # 1	<b>SIZE:</b> 100 ug
Cat. # VIPRRP11-A	<b>Rabbit</b> Anti-rat VIPRRP IgG # 1 (aff pure)	<b>SIZE:</b> 100 ug

Vasoactive intestinal peptide (**VIP**) is a 28-aminoacid peptide (human, chr 6q26-q27). Expressed and secreted by neurons innervating primary and secondary immune organs such as lymph nodes with a Mol.wt of 20kD. 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.

**VIPRRP** is a novel transcriptional repressor protein (656aa, rat) that regulates VIPR expression; it encodes a 72kD novel protein that interacts specifically with VIPR repressor element. Expression of VIPRRP led to transcriptional repression, thus indicating, positive and negative factors interact with VIPR promoter to regulate its expression. The VIPRRP is 78% identical to a previously characterized protein, differentiation-specific element binding protein, which is a member of a family of proteins including components of DNA replication factor C complex.

**Source of Antigen and Antibodies**

<b>Antigen</b>	17-aa peptide from <b>Rat VIPRRP (1)</b> ; <b>Designation (VIPRRP11-P, control peptide)</b> conjugated to KLH; epitope location ~ C-terminus
<b>Ab Host/type</b>	Rabbit, Polyclonal Aff pure IgG ( <b>cat # VIPRRP11-A</b> ) purified over antigen-agarose column
<b>2-ab</b>	<b>Goat Anti-rabbit IgG-HRP</b> cat # 20320 (AP, biotin, FITC conjugates also available)
<b>-ve control IgG</b>	<b># 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as -ve control</b>

**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.

**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 rat VIPRRP11-P control peptide shows no significant homology 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(2000) JBC, 275, 1176-1182; Bodner,M (1985) PNA,82, 3548-3551; Delgado, M (2001) Nature Med, 7, 563-568; Gotoh, E.(1998) Biochem. Int, 17, 555-562.

\*This product is for In vitro research use only.

**Related material available from ADI**

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

VIPRRP11-A-P

71208A

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