

## Anti-VIP Receptor 1/VIPR1 Antibody Picoband™

Catalog Number: A04345

### About VIPR1

VIPR1 (Vasoactive intestinal polypeptide receptor 1), also known as VIPR, HVR1, is a protein that in humans is encoded by the VIPR1 gene. Distinct subsets of neural, respiratory, gastrointestinal, and immune cells bear specific high-affinity G protein-coupled receptors for VIP, such as VIPR1. The VIPR1 gene is mapped on 3p22.1. The VIPR1 gene was found to span approximately 22 kb and to be comprised of 13 exons (ranging from 42 to 1,400 bp) and 12 introns (ranging from 0.3 to 6.1 kb). One encodes a VIP receptor consisting of 460 amino acids and having 7 putative transmembrane domains, as do other G protein-coupled receptors. Patients with idiopathic achalasia show a significant difference in the distribution of SNPs affecting VIPR1.

### Overview

|                      |   |
|----------------------|---|
| Product Name         | Anti-VIP Receptor 1/VIPR1 Antibody Picoband™  |
| Reactive Species     | Human, Mouse, Rat   |
| Description          | Boster Bio Anti-VIP Receptor 1/VIPR1 Antibody Picoband™ catalog # A04345. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.  |
| Application          | IHC, WB   |
| Clonality            | Polyclonal  |
| Formulation          | Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .  |
| Storage Instructions | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles. |
| Host                 | Rabbit  |
| Uniprot ID           | P32241  |

### Technical Details

|                               |   |
|-------------------------------|---|
| Immunogen                     | A synthetic peptide corresponding to a sequence at the C-terminus of human VIP Receptor 1, which shares 84% amino acid (aa) sequence identity with both mouse and rat VIP Receptor 1. |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).      |
| Cross Reactivity              | No cross-reactivity with other proteins.  |
| Isotype                       | Rabbit IgG  |
| Form                          | Lyophilized   |
| Concentration                 | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.   |

**Suggested Dilutions**

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.1-0.5ug/ml

Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml

## Anti-VIP Receptor 1/VIPR1 Antibody Picoband™ (A04345) Images

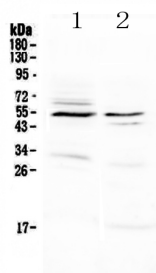


Figure 1. Western blot analysis of VIP Receptor 1 using anti-VIP Receptor 1 antibody (A04345).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: human A431 cell lysates,

Lane 2: human PANC-1 cell lysates.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-VIP Receptor 1 antigen affinity purified polyclonal antibody (Catalog # A04345) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for VIP Receptor 1 at approximately 52KD. The expected band size for VIP Receptor 1 is at 52KD.

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