



Antibody Specification Sheet

Anti-Vasoactive Intestinal Peptide Receptor 1 (VIPR1) –Purified (VPAC1)

Catalog reference: AS58-P

Size: 0.1 mg



Antibody Information:

Antigen: whole recombinantly expressed human Vasoactive Intestinal Peptide Receptor 1 (hVIPR1).

Ig Class: mIgG2a .

Form: purified.

Specificity: recognizes human VIPR1. Does not recognize cells expressing only VIPR2.

Antibody Source: monoclonal antibody from BALB/c-derived hybridoma 2VIPR-2H8.

Production: *in vitro* cell culture.

Purification: Protein A agarose chromatography.

Purity: ≥95%.

Formulation: provided as a 0.2 µm sterile-filtered solution

in Ca⁺⁺ & Mg⁺⁺ free Dulbecco's PBS and 0.05% sodium azide.

Concentration: 1 mg/ml.

Recommendations: Western Blot, Flow Cytometry.

Storage conditions: store undiluted at 4 °C or in aliquots at ≤ - 20 °C.

Applications:

Western Blot: This antibody has been used at 0.5-2 ug/ml to visualize a 45-50kD band from 1-5 ug protein of T-cells and ovarian tumor cells using the method of Goetzl, EJ, et al. Mol. Cell. Neurosci. 5:145-152, 1994).

Flow Cytometry: This antibody has been used at 0.25- 1 µg/test to recognize VIPR1 expressed in human T-cell lymphoma HUT78 cells using cell permeabilization and intra-cellular staining reagents.

General Information:

Cell Distribution: hVIPR1 is expressed on T cells, macrophages, mast cells, platelets, and non-immune cells. VIP receptors are found in the CD3 positive zone around lymphoid follicles. In the spleen, VIP receptors are detected in periarterial lymphatic sheaths. In the thymus, VIP receptors are present in cortex and medulla. VIP receptors are expressed in tumor metastasis and on human colonic adenocarcinoma cell lines, HT29, HUT78, SW403, DLD-1 and Caco-2.

Function: hVIPR1 is a G-protein-coupled receptor for vasoactive intestinal peptide (VIP) and pituitary adenylate cyclase-activating polypeptide (PACAP). VIPR1 mediates suppression of chemotaxis and matrix metalloproteinase expression elicited by some cytokines and chemokines. Although structurally-related to a second receptor for VIP (VIPR2), there are differences in the expression and function of VIPR1 and VIPR2. VIPR1 on tumor cells mediates tumor cell migration induced by VIP.

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