

## VipR 1 (Vasoactive Intestinal Peptide Rec-1). Mouse Monoclonal Antibody AS58 Human, Rat

### BACKGROUND

Human Vasoactive Intestinal Peptide Receptor-1 (VIPR1) 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.

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, SW403, DLD-1 and Caco-2.

### ORDERING INFORMATION

**CATALOG NUMBER**  
Z135M

**SIZE**  
100 µg

**FORM**  
Unconjugated

**HOST/CLONE**  
Mouse Clone AS58

**FORMULATION**  
Provided as solution in phosphate buffered saline with 0.08% sodium azide

**CONCENTRATION**  
1 mg/ml

**ISOTYPE**  
IgG2a

**APPLICATIONS**  
Western Blot, Flow Cytometry

### IMMUNOGEN

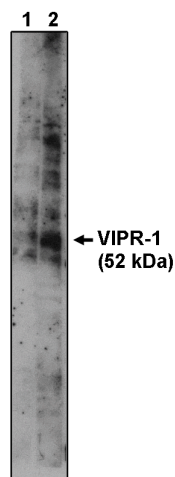
Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized with recombinant VIPR1 receptor protein and mouse myeloma cells.

### SPECIES REACTIVITY

Human, Rat

### Legend:

Western blot analysis using anti-VIPR1 antibody on A431 cell lysate at 1 µg/ml (1) and 10 µg/ml (2).



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**POSITIVE CONTROL/TISSUE EXPRESSION**

A431 and HUT78 cell lysate

**COMMENTS**

Antibody can be used for Western blotting (1–10  $\mu\text{g/ml}$ ) and flow cytometry (0.5–1  $\mu\text{g/ml}$ ). Optimal concentration should be evaluated by serial dilutions.

**SHIP CONDITIONS**

Ship at ambient temperature, freeze upon arrival

**STORAGE CUSTOMER**

Product should be stored at  $-20^{\circ}\text{C}$ . Aliquot to avoid freeze/thaw cycles

**STABILITY**

Products are stable for one year from purchase when stored properly

**REFERENCES**

1. Goetzl, E.J., et al. "Specific recognition of the human neuroendocrine receptor for vasoactive intestinal peptide by anti-peptide antibodies." *Mol. Cell. Neurosci.* 1994, 5, 145–152
2. Pei, L. "Molecular cloning of a novel transcriptional repressor protein of the rat type 1 vasoactive intestinal peptide receptor gene." *J. Biol. Chem.* 1998, 273, 19902–19908
3. Lara-Marquez, M., et al. "Selective gene expression and activation-dependent regulation of vasoactive intestinal peptide receptor type 1 and type 2 in human T-cells." *J. Immunol.* 2001, 166, 2522–2530

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