

VPAC1 Polyclonal Antibody

Catalog # AP73757

Product Information

Application	WB
Primary Accession	P32241
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51547

Additional Information

Gene ID	7433
Other Names	VIPR1; Vasoactive intestinal polypeptide receptor 1; VIP-R-1; Pituitary adenylate cyclase-activating polypeptide type II receptor; PACAP type II receptor; PACAP-R-2; PACAP-R2; VPAC1
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

Protein Information

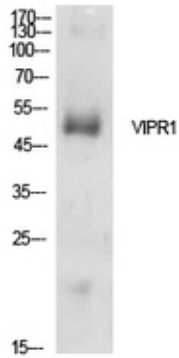
Name	VIPR1 (HGNC:12694)
Function	G protein-coupled receptor activated by the neuropeptides vasoactive intestinal peptide (VIP) and pituitary adenylate cyclase- activating polypeptide (ADCYAP1/PACAP) (PubMed: 35477937 , PubMed: 36385145 , PubMed: 8179610). Binds VIP and both PACAP27 and PACAP38 bioactive peptides with the following order of ligand affinity VIP = PACAP27 > PACAP38 (PubMed: 35477937 , PubMed: 8179610). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors. Activates cAMP-dependent pathway (PubMed: 35477937 , PubMed: 36385145 , PubMed: 8179610).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	In lung, HT-29 colonic epithelial cells, Raji B- lymphoblasts. Lesser extent in brain, heart, kidney, liver and placenta. Not expressed in CD4+ or CD8+ T-cells. Expressed in the T- cell lines HARRIS, HuT 78, Jurkat and SUP-T1, but

not in the T-cell lines Peer, MOLT-4, HSB and YT.

Background

This is a receptor for VIP. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase. The affinity is VIP = PACAP-27 > PACAP-38.

Images



Western Blot analysis of HepG2 cells using VPAC1 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

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