

**VIPR1 Antibody (Cytoplasmic Domain)
Rabbit Polyclonal Antibody
Catalog # ALS10325****Specification****VIPR1 Antibody (Cytoplasmic Domain) - Product Information**

Application	IHC-P
Primary Accession	P32241
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52kDa KDa
Dilution	IHC-P~~N/A

VIPR1 Antibody (Cytoplasmic Domain) - Additional Information**Gene ID** 7433**Other Names**

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, VIPR1

Target/Specificity

Human VIP Receptor 1. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except GHRHR (56%).

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

VIPR1 Antibody (Cytoplasmic Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

VIPR1 Antibody (Cytoplasmic Domain) - 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.

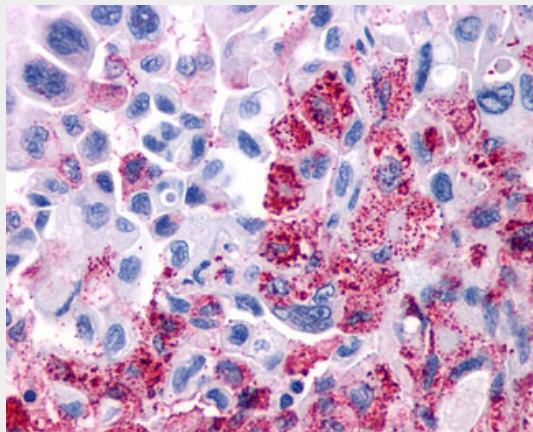
Volume

50 µl

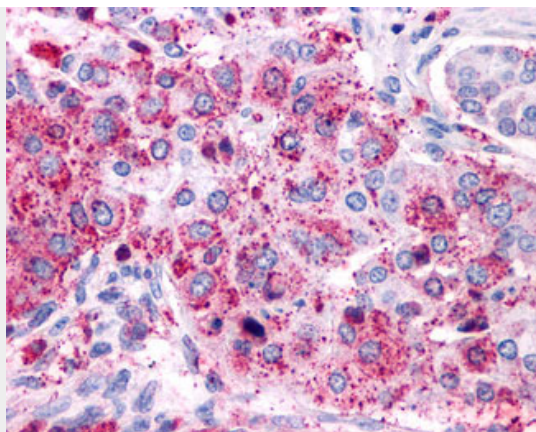
VIPR1 Antibody (Cytoplasmic Domain) - Protocols

Provided below are standard protocols that you may find useful for product applications.

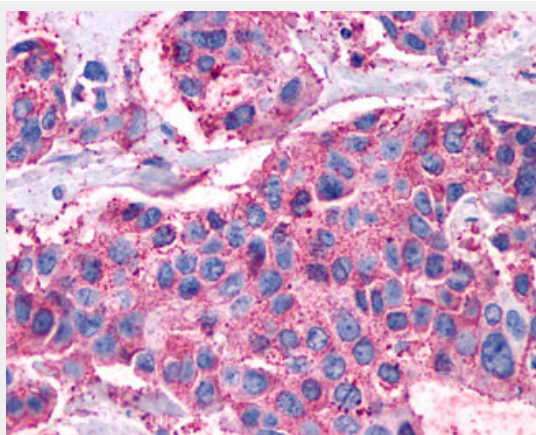
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

VIPR1 Antibody (Cytoplasmic Domain) - Images

Anti-VIPR1 / RDC1 antibody IHC of human Pancreas, Carcinoma.



Anti-VIPR1 / RDC1 antibody IHC of human Lung, Adenocarcinoma.



Anti-VIPR1 / RDC1 antibody IHC of human Breast, Carcinoma.

VIPR1 Antibody (Cytoplasmic Domain) - 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.

VIPR1 Antibody (Cytoplasmic Domain) - References

Sreedharan S.P.,et al.Biochem. Biophys. Res. Commun. 193:546-553(1993).
Couvineau A.,et al.Biochem. Biophys. Res. Commun. 200:769-776(1994).
Suwa M.,et al.Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.
Martin A.L.,et al.Submitted (APR-2007) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).