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VIPR1 Antibody (Cytoplasmic Domain)
Rabbit Polyclonal Antibody
Catalog # ALS10326

Specification

VIPR1 Antibody (Cytoplasmic Domain) - Product Information

Application	**IHC**
Primary Accession	P32241
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**52kDa KDa**

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.

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:<a

href="http://www.uniprot.org/citations/35477937" target="_blank">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.

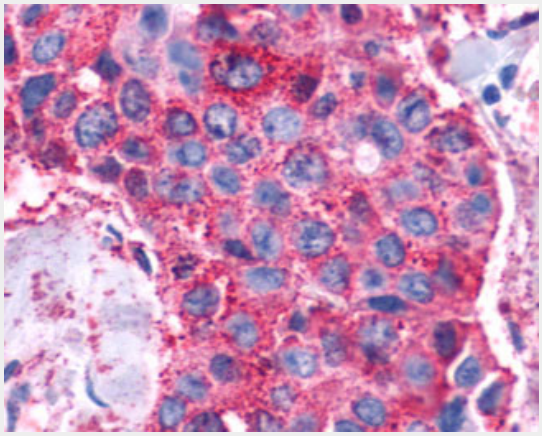
Volume
50 µl

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 Cytomety
- Cell Culture

VIPR1 Antibody (Cytoplasmic Domain) - Images



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

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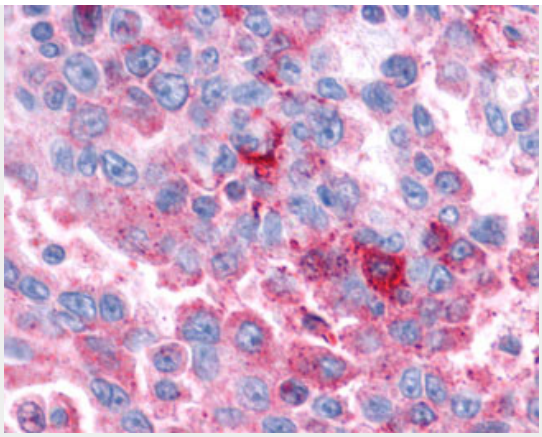
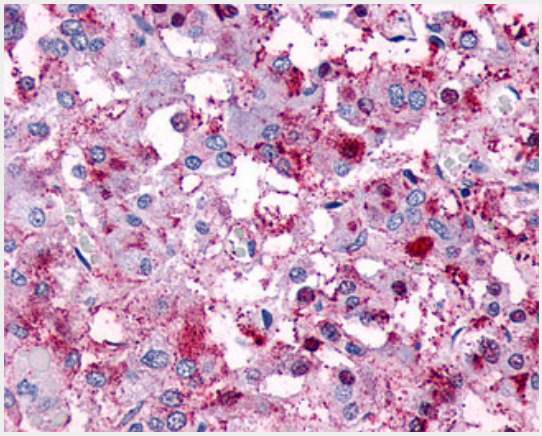


Anti-VIPR1 / RDC1 antibody IHC of human Lung, Adenocarcinoma.



Anti-VIPR1 / RDC1 antibody IHC of human adrenal.

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).