10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

GPR4 Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS10049

Specification

GPR4 Antibody (C-Terminus) - Product Information

Application	**IHC**
Primary Accession	P46093
Reactivity	**Human, Monkey, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**41kDa KDa**

GPR4 Antibody (C-Terminus) - Additional Information

Gene ID 2828

Other Names
G-protein coupled receptor 4, G-protein coupled receptor 19, GPR4, GPR19

Target/Specificity
Human GPR4. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage
Long term: -70°C; Short term: +4°C

Precautions
GPR4 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

GPR4 Antibody (C-Terminus) - Protein Information

Name GPR4

Function
Proton-sensing G-protein coupled receptor couples to multiple intracellular signaling pathways, including GNAS/cAMP, GNAQ/phospholipase C (PLC), and GNA12/GNA13/Rho pathways (PubMed:12955148, PubMed:17462861, PubMed:22110680, PubMed:20211729). Acidosis-induced GPR4 activation increases paracellular gap formation and permeability of vascular endothelial cells through the GNA12/GNA13/Rho GTPase signaling pathway (PubMed:32058960). In the brain may mediate central respiratory sensitivity to CO(2)H(+) (By similarity).

Cellular Location

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Cell membrane; Multi-pass membrane protein

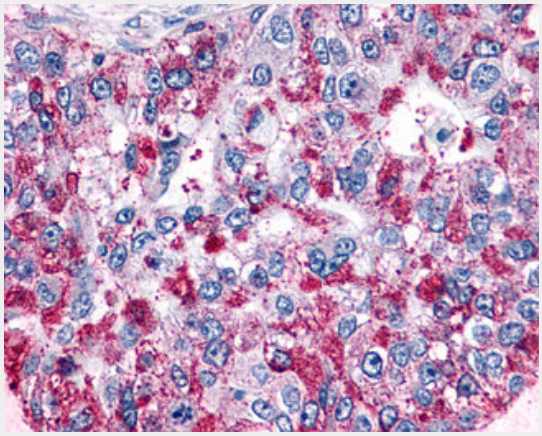
Volume
50 µl

GPR4 Antibody (C-Terminus) - 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

GPR4 Antibody (C-Terminus) - Images



Anti-GPR4 antibody IHC of human Lung, Adenocarcinoma.

GPR4 Antibody (C-Terminus) - Background

Proton-sensing receptor coupled to several G-proteins, including G(s), G(13) and G(q)/G(11) proteins, leading to cAMP production.

GPR4 Antibody (C-Terminus) - References

Heiber M.,et al.DNA Cell Biol. 14:25-35(1995).
Mahadevan M.S.,et al.Genomics 30:84-88(1995).
An S.,et al.FEBS Lett. 375:121-124(1995).
Kaighin V.A.,et al.Submitted (DEC-2007) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).