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ADGRA2 / GPR124 Antibody (N-Terminus)

Rabbit Polyclonal Antibody
Catalog # ALS10531

Specification

ADGRA2 / GPR124 Antibody (N-Terminus) - Product Information

Application	**IHC**
Primary Accession	Q96PE1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**143kDa KDa**

ADGRA2 / GPR124 Antibody (N-Terminus) - Additional Information

Gene ID 25960

Other Names
G-protein coupled receptor 124, Tumor endothelial marker 5, GPR124, KIAA1531, TEM5

Target/Specificity
Human GPR124. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

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

Precautions
ADGRA2 / GPR124 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

ADGRA2 / GPR124 Antibody (N-Terminus) - Protein Information

Name ADGRA2 (HGNC:17849)

Function
Endothelial receptor which functions together with RECK to enable brain endothelial cells to selectively respond to Wnt7 signals (WNT7A or WNT7B) (PubMed:28289266, PubMed:30026314). Plays a key role in Wnt7-specific responses, such as endothelial cell sprouting and migration in the forebrain and neural tube, and establishment of the blood-brain barrier (By similarity). Acts as a Wnt7-specific coactivator of canonical Wnt signaling: required to deliver RECK-bound Wnt7 to frizzled by assembling a higher-order RECK-ADGRA2-Fzd-LRP5-LRP6 complex (PubMed:30026314). ADGRA2-tethering function does not rely on its G-protein coupled receptor (GPCR) structure but instead on its combined capacity to interact with RECK extracellularly and recruit the Dishevelled scaffolding protein intracellularly (PubMed:<a href="http://www.uniprot.org/citations/30026314"

target="_blank">30026314). Binds to the glycosaminoglycans heparin, heparin sulfate, chondroitin sulfate and dermatan sulfate (PubMed:16982628).

Cellular Location
Cell membrane; Multi-pass membrane protein. Cell projection, filopodium. Note=Enriched at lateral cell borders and also at sites of cell-ECM (extracellular matrix) contact

Tissue Location
Expressed in endothelial cells (at protein level) (PubMed:15021905, PubMed:16982628). Abundantly expressed in heart, placenta, ovary, small intestine, and colon (PubMed:15021905)

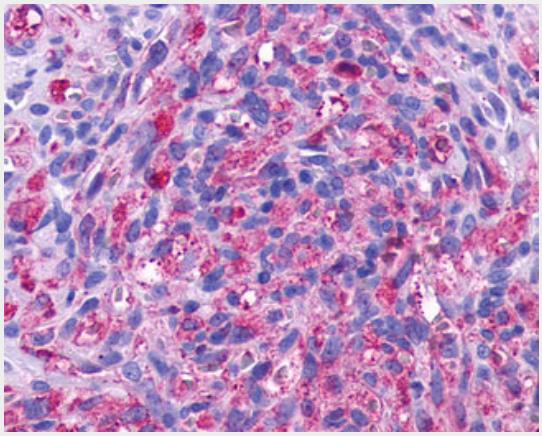
Volume
50 µl

ADGRA2 / GPR124 Antibody (N-Terminus) - Protocols

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

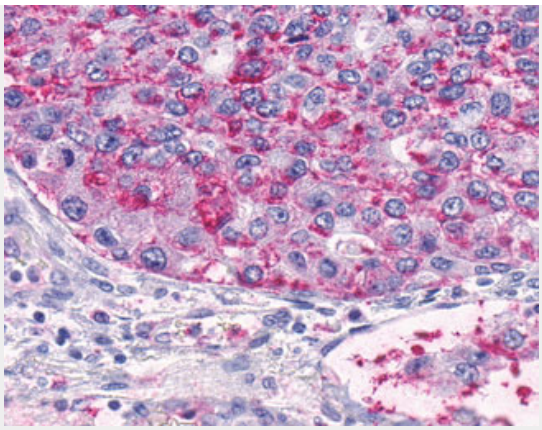
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ADGRA2 / GPR124 Antibody (N-Terminus) - Images



Anti-GPR124 / TEM5 antibody IHC of human Skin, Kaposis Sarcoma Tumor Endothelium.

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Anti-GPR124 / TEM5 antibody IHC of human Lung, Adenocarcinoma.

ADGRA2 / GPR124 Antibody (N-Terminus) - Background

Endothelial receptor that acts as an essential regulator of CNS angiogenesis. Required for normal endothelial cell sprouting and migration in the forebrain and neural tube (By similarity).

ADGRA2 / GPR124 Antibody (N-Terminus) - References

Carson-Walter E.B.,et al.Cancer Res. 61:6649-6655(2001).
Nagase T.,et al.DNA Res. 7:143-150(2000).
Nakajima D.,et al.DNA Res. 9:99-106(2002).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Nusbaum C.,et al.Nature 439:331-335(2006).