

ADGRF5 Antibody (Cytoplasmic Domain)
Rabbit Polyclonal Antibody
Catalog # ALS10379**Specification**

ADGRF5 Antibody (Cytoplasmic Domain) - Product Information

Application	IHC-P
Primary Accession	Q8IZF2
Reactivity	Human, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	149kDa KDa
Dilution	IHC-P~~N/A

ADGRF5 Antibody (Cytoplasmic Domain) - Additional Information**Gene ID** 221395**Other Names**

Probable G-protein coupled receptor 116, GPR116, KIAA0758

Target/Specificity

Human GPR116. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except KLHL24 (50%).

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

ADGRF5 Antibody (Cytoplasmic Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

ADGRF5 Antibody (Cytoplasmic Domain) - Protein Information**Name** ADGRF5 ([HGNC:19030](#))**Synonyms** GPR116, KIAA0758**Function**

Adhesion G protein-coupled receptor (PubMed:28570277). In alveolar type II (ATII or AT2) cells, required for normal lung surfactant homeostasis (PubMed:28570277). Modulation of both surfactant secretion and uptake by ATII cells is mediated by the downstream activation of GNAQ/GNA11 proteins and may be a consequence of increased cortical F-actin assembly induced by ADGRF5 activation (PubMed:28570277). In the kidney, may play a role in the regulation of acid excretion into the primary urine, possibly by regulating the surface expression of V-ATPase proton

pump (By similarity). As a receptor for soluble FNDC4 (sFNDC4), required for proper systemic glucose tolerance, specifically sensitizing white adipose tissue to insulin. Also plays a role in sFNDC4-induced decrease of local inflammation in white adipose tissue (PubMed:34016966).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

Expressed in lung endothelial cells and in alveolar type II (ATII) cells (at protein level) (PubMed:23684610, PubMed:28570277). Expressed high levels in subcutaneous adipose tissue in lean individuals and at lower levels in visceral fat. Expression levels in subcutaneous adipose tissue drastically drop in obese individuals (PubMed:34016966).

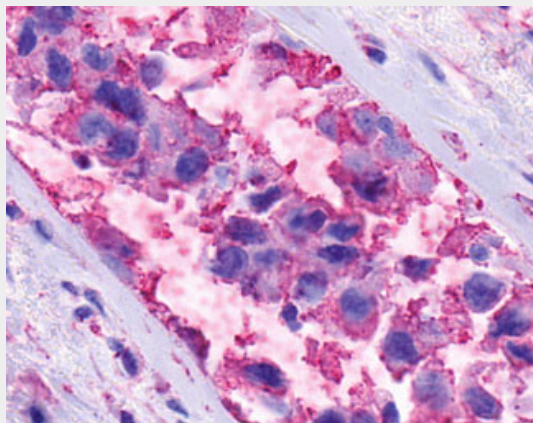
Volume

50 µl

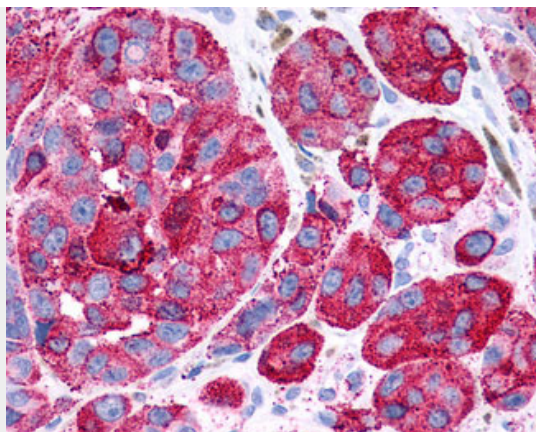
ADGRF5 Antibody (Cytoplasmic Domain) - Protocols

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

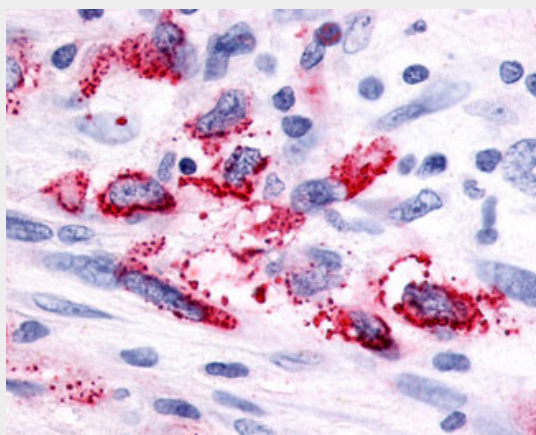
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ADGRF5 Antibody (Cytoplasmic Domain) - Images

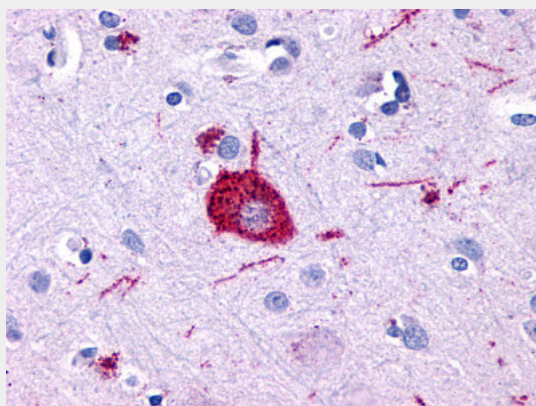
Anti-GPR116 antibody IHC of human Breast, Carcinoma.



Anti-GPR116 antibody IHC of human Skin, Melanoma.



Anti-GPR116 antibody IHC of human Brain, Glioblastoma.



Anti-GPR116 antibody ALS10379 IHC of human brain, neuron.

ADGRF5 Antibody (Cytoplasmic Domain) - Background

May have a role in the regulation of acid-base balance.

ADGRF5 Antibody (Cytoplasmic Domain) - References

Fredriksson R., et al. FEBS Lett. 531:407-414(2002).
Bonner T.I., et al. Submitted (DEC-2003) to the EMBL/GenBank/DDBJ databases.
Nagase T., et al. DNA Res. 5:355-364(1998).
Ohara O., et al. Submitted (AUG-2005) to the EMBL/GenBank/DDBJ databases.

Bechtel S.,et al.BMC Genomics 8:399-399(2007).