

**GPR116 Polyclonal Antibody**  
**Catalog # AP70143****Specification**

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**GPR116 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IF
Primary Accession	<a href="#">Q8IZF2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

**GPR116 Polyclonal Antibody - Additional Information****Gene ID** 221395**Other Names**

GPR116; KIAA0758; Probable G-protein coupled receptor 116

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.

IHC-P~~N/A

IF~~1:50~200

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

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

Adhesion G protein-coupled receptor (PubMed:<a href="http://www.uniprot.org/citations/28570277" target="\_blank">28570277</a>). In alveolar type II (ATII or AT2) cells, required for normal lung surfactant homeostasis (PubMed:<a href="http://www.uniprot.org/citations/28570277" target="\_blank">28570277</a>). 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:<a href="http://www.uniprot.org/citations/28570277" target="\_blank">28570277</a>). 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:<a href="http://www.uniprot.org/citations/34016966" target="\_blank">34016966</a>).

#### **Cellular Location**

Cell membrane; Multi-pass membrane protein

#### **Tissue Location**

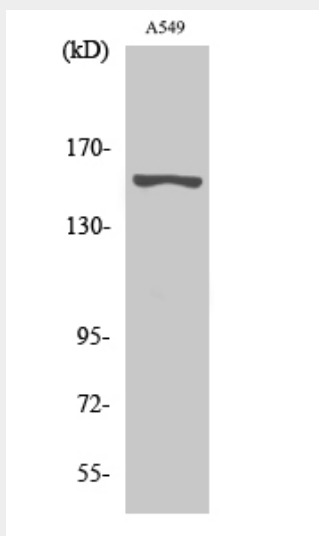
Expressed in lung endothelial cells and in alveolar type II (ATII) cells (at protein level) (PubMed:23684610, PubMed:28570277). Expressed high levels in subcutaneous adipose tissue in lean individuals and at lower levels in visceral fat. Expression levels in subcutaneous adipose tissue drastically drop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

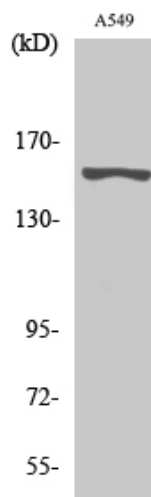
### **GPR116 Polyclonal Antibody - Protocols**

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](#)

### **GPR116 Polyclonal Antibody - Images**





### **GPR116 Polyclonal Antibody - Background**

Receptor that plays a critical role in lung surfactant homeostasis. May play a role in controlling adipocyte function.