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GPR116 Polyclonal Antibody

Catalog # AP70143

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	Q8IZF2
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	149457

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 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

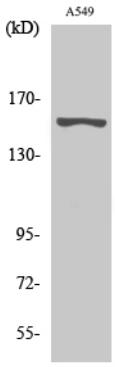
Name	ADGRF5 (HGNC:19030)
Synonyms	GPR116, KIAA0758
Function	Adhesion G protein-coupled receptor (PubMed: 28570277). In alveolar type II (ATII or AT2) cells, required for normal lung surfactant homeostasis (PubMed:28570277). Modulation of both surfactant secretion and uptake by ATII cells is mediated 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).

Background

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

Images



Western Blot analysis of various cells using GPR116 Polyclonal Antibody diluted at 1：500