DATASHEET

GPR116 Rabbit Polyclonal Antibody

CAT. NO. APA09901

KEY FEATURES

Target	GPR116	Source / Host	Rabbit
Reactivity	Human	Clonality	Polyclonal
Applications	WB, IHC, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Adhesion G protein-coupled receptor . In alveolar type II (ATII or AT2) cells, required for normal lung surfactant homeostasis . 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 . 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 . 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 .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:100 - 1:200
IF/ICC	1:100 - 1:500

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to GPR116
Specificity	Recognizes endogenous levels of GPR116 protein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human GPR116. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 149 kD; Observed: 149 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	KIAA0758; Probable G-protein coupled receptor 116
Gene Symbol	GPR116
Entrez Gene	221395(Human)
SwissProt	Q8IZF2(Human)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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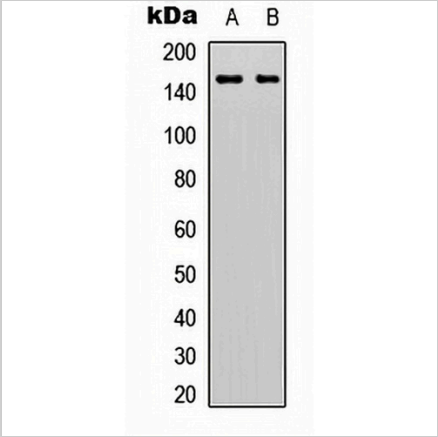
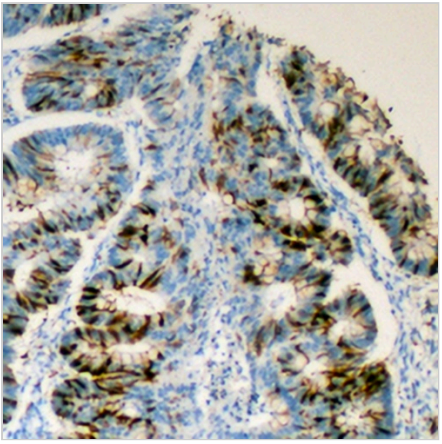
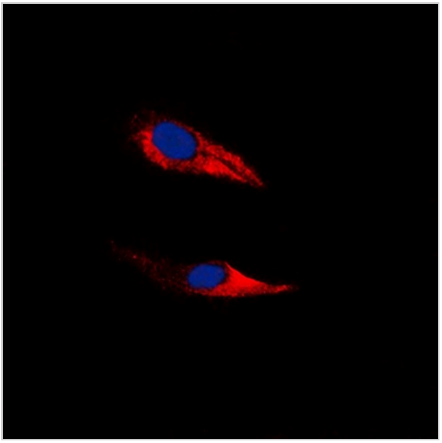
DATA



Western blot analysis of GPR116 expression in HeLa (A), Y79 (B) whole cell lysates. (Predicted band size: 149 kD; Observed band size: 149 kD)



Immunohistochemical analysis of GPR116 staining in human colon formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of GPR116 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.