

GPCRW / GPR18 Antibody (Extracellular Domain)
Rabbit Polyclonal Antibody
Catalog # ALS10718**Specification**

GPCRW / GPR18 Antibody (Extracellular Domain) - Product Information

Application	IHC
Primary Accession	Q14330
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38kDa KDa

GPCRW / GPR18 Antibody (Extracellular Domain) - Additional Information**Gene ID** 2841**Other Names**

N-arachidonyl glycine receptor, NAGly receptor, G-protein coupled receptor 18, GPR18, GPCRW

Target/Specificity

Human GPR18. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except GPR174 (44%).

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

GPCRW / GPR18 Antibody (Extracellular Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

GPCRW / GPR18 Antibody (Extracellular Domain) - Protein Information**Name** GPR18**Synonyms** GPCRW**Function**

Receptor for endocannabinoid N-arachidonyl glycine (NAGly) (PubMed:16844083, PubMed:24762058, PubMed:27572937). However, conflicting results about the role of NAGly as an agonist are reported (PubMed:27018161). Can also be activated by plant-derived and synthetic cannabinoid agonists (PubMed:24762058). The activity of this receptor is mediated by G proteins which inhibit adenylyl cyclase (PubMed:16844083). May

contribute to regulation of the immune system. Is required for normal homeostasis of CD8+ subsets of intraepithelial lymphocytes (IELs) (CD8alphaalpha and CD8alphabeta IELs) in small intestine by supporting preferential migration of CD8alphaalpha T-cells to intraepithelial compartment over lamina propria compartment, and by mediating their reconstitution into small intestine after bone marrow transplant (By similarity). Plays a role in hypotensive responses, mediating reduction in intraocular and blood pressure (By similarity). Mediates NAGly-induced process of reorganization of actin filaments and induction of acrosomal exocytosis (PubMed:27572937).

Cellular Location

Cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle membrane

Tissue Location

Expressed in midpiece of spermatozoon (at protein level) (PubMed:27572937). Most abundant in testis and spleen (PubMed:16844083). Highly expressed in CD4 and CD8-positive T-cells as well as CD19-positive B-cells (PubMed:16844083)

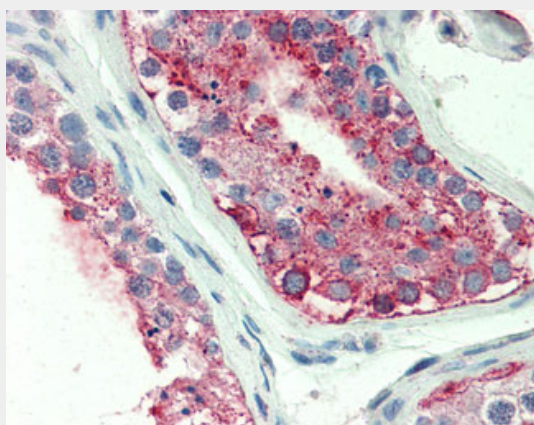
Volume

50 µl

GPCRW / GPR18 Antibody (Extracellular 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](#)

GPCRW / GPR18 Antibody (Extracellular Domain) - Images

Anti-GPR18 antibody ALS10718 IHC of human testis.

GPCRW / GPR18 Antibody (Extracellular Domain) - Background

Receptor for N-arachidonyl glycine. The activity of this receptor is mediated by G proteins which inhibit adenyl cyclase. May contribute to regulation of the immune system.

GPCRW / GPR18 Antibody (Extracellular Domain) - References

Gantz I.,et al.Genomics 42:462-466(1997).
Kohn M.,et al.Biochem. Biophys. Res. Commun. 347:827-832(2006).
Xu X.,et al.Submitted (MAY-2000) to the EMBL/GenBank/DDBJ databases.
Kalnine N.,et al.Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.
Dunham A.,et al.Nature 428:522-528(2004).