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Anti-GPCRW / GPR18 Antibody (Cytoplasmic Domain)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17552

Specification

Anti-GPCRW / GPR18 Antibody (Cytoplasmic Domain) - Product Information

Application	**IHC-P, E**
Primary Accession	Q14330
Predicted	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**38134**

Anti-GPCRW / GPR18 Antibody (Cytoplasmic Domain) - Additional Information

Gene ID 2841

Alias Symbol	**GPR18**

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

Target/Specificity
Human GPR18. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage
Immunoaffinity purified

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

Anti-GPCRW / GPR18 Antibody (Cytoplasmic 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 intstine 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)

Anti-GPCRW / GPR18 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 Cytomety
- Cell Culture

Anti-GPCRW / GPR18 Antibody (Cytoplasmic Domain) - Images