

**GPR18 Polyclonal Antibody**  
**Catalog # AP70187****Specification**

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**GPR18 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q14330</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

**GPR18 Polyclonal Antibody - Additional Information****Gene ID** 2841**Other Names**

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

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications.

**Format**

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

**Storage Conditions**

-20°C

**GPR18 Polyclonal Antibody - Protein Information****Name** GPR18**Synonyms** GPCRW**Function**

Receptor for endocannabinoid N-arachidonyl glycine (NAGly) (PubMed:<a href="http://www.uniprot.org/citations/16844083" target="\_blank">16844083</a>, PubMed:<a href="http://www.uniprot.org/citations/24762058" target="\_blank">24762058</a>, PubMed:<a href="http://www.uniprot.org/citations/27572937" target="\_blank">27572937</a>). However, conflicting results about the role of NAGly as an agonist are reported (PubMed:<a href="http://www.uniprot.org/citations/27018161" target="\_blank">27018161</a>). Can also be activated by plant-derived and synthetic cannabinoid agonists (PubMed:<a href="http://www.uniprot.org/citations/24762058" target="\_blank">24762058</a>). The activity of this receptor is mediated by G proteins which inhibit adenylyl cyclase (PubMed:<a href="http://www.uniprot.org/citations/16844083" target="\_blank">16844083</a>). 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:<a href="http://www.uniprot.org/citations/27572937" target="\_blank">27572937</a>).

#### Cellular Location

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

#### Tissue Location

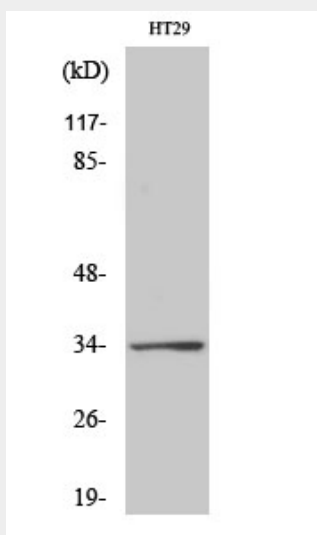
Expressed in midpiece of spermatozoon (at protein level) (PubMed:27572937). Most abundant in testis and spleen (PubMed:16844083). Highly expressed in CD4 and CD8-positive T-cells as well as CD19-positive B-cells (PubMed:16844083)

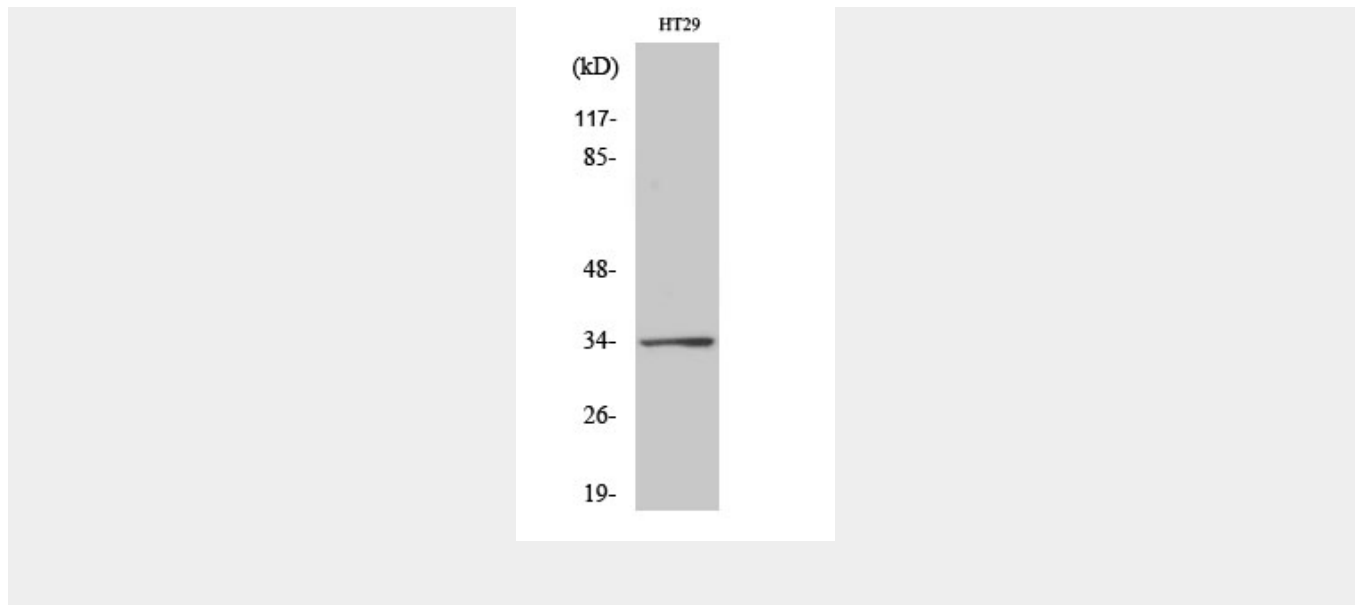
### GPR18 Polyclonal Antibody - Protocols

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](#)

### GPR18 Polyclonal Antibody - Images





### **GPR18 Polyclonal Antibody - Background**

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).