Anti-GPR18 antibody

Description	GPR18 is a protein encoded by the GPR18 gene which is approximately 38,1 kDa. GPR18 is localised to the cell membrane. It is involved in peptide ligand-binding receptors and signalling by GPCR. The activity of this receptor is mediated by G proteins which inhibit adenylyl cyclase. It may contribute to the regulation of the immune system and plays a role in hypotensive responses, mediating reduction in intraocular and blood pressure. GPR18 is most abundant in the testis and spleen. STJ93370 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. This polyclonal antibody detects endogenous levels of GPR18 protein.

Model	STJ93370
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IF, IHC, WB
Immunogen	Synthesized peptide derived from human GPR18
Immunogen Region	160-240 aa, Internal
Gene ID	2841
Gene Symbol	GPR18
Dilution range	WB 1:500-1:2000IHC 1:100-1:300IF 1:200-1:1000ELISA 1:5000
Specificity	GPR18 Polyclonal Antibody detects endogenous levels of GPR18 protein.
Tissue Specificity	Expressed in midpiece of spermatozoon (at protein level) . Most abundant in testis and spleen . Highly expressed in CD4 and CD8-positive T-cells as well as CD19-positive B-cells .

Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	N-arachidonyl glycine receptor NAGly receptor G-protein coupled receptor 18
Molecular Weight	34 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:4472OMIM:602042
Alternative Names	N-arachidonyl glycine receptor NAGly receptor G-protein coupled receptor 18
Function	Receptor for endocannabinoid N-arachidonyl glycine (NAGly) . However, conflicting results about the role of NAGly as an agonist are reported . Can also be activated by plant-derived and synthetic cannabinoid agonists . The activity of this receptor is mediated by G proteins which inhibit adenylyl cyclase . 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 . Plays a role in hypotensive responses, mediating reduction in intraocular and blood pressure . Mediates NAGly-induced process of reorganization of actin filaments and induction of acrosomal exocytosis .
Cellular Localization	Cell membrane Cytoplasmic vesicle membrane