abcam

ab169392

Anti-P2Y8 antibody

Key facts

Isotype	IgG
Host species	Mouse
Storage buffer	pH: 7.4 Constituents: PBS
Form	Liquid
Clonality	Polyclonal
Immunogen	Recombinant Full Length Protein corresponding to Human P2RY8. Database link Q86VZ1
Purification technique	Affinity purification Protein A
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1 µg/mL
Notes	ab37355 - Mouse polyclonal IgG, is suitable for use as an isotype control with this antibody.

WB

Tested

Species	Human
Dilution info	1 µg/mL
Notes	-

Target data

See full target information P2RY8

Function	G protein-coupled receptor for S-geranylgeranyl-glutathione (GGG), an endogenous metabolite present in lymphoid tissues. Couples the binding of GGG to the activation of GNA13 and downstream repression of AKT activation in lymphocytes defining their positioning and growth within lymphoid organs (PubMed:25274307, PubMed:30842656, PubMed:34088745). In lymphoid follicles, confines B cells and follicular helper T cells in germinal centers (GCs) in response to GGG local gradients established by GGT5 (via GGG catabolism) and ABCC1 (via extracellular transport) with lower concentrations of GGG found in the follicular dendritic cell network region around which germinal centers are formed (PubMed:25274307, PubMed:30842656, PubMed:34088745). In the bone marrow, also in response to GGG gradients established by GGT5 and ABCC1, it restricts chemotactic transmigration of B cells, T cells and NK cells from blood vessels to the bone marrow parenchyma (PubMed:30842656, PubMed:34088745). Contributes to GNA13-dependent pathway that suppresses GC B cell growth (PubMed:25274307).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The P2Y8 receptor also known as GPR99 is a member of the G protein-coupled receptors (GPCRs) family and has an approximate molecular mass of 35 kDa. It is

	involved in mechanical signaling by binding with extracellular nucleotides such as ATP and UTP. These interactions lead to diverse cellular responses including alterations in intracellular calcium levels. The P2Y8 receptor shows expression in a variety of tissues including the immune system suggesting its role in immune regulation.
Biological function summary	The P2Y8 receptor acts as an immune modulator and can influence the activity of leukocytes. It contributes to the regulation of inflammatory responses and potentially modulates the proliferation and migration of immune cells. While not part of a large receptor complex P2Y8 affects cellular signal transduction playing an important role in processes requiring rapid cellular responses.
Pathways	The P2Y8 receptor participates prominently in the purinergic signaling pathway. This pathway is essential for various physiological processes including inflammation thrombosis and neurotransmission. P2Y8 also interacts with other purinergic receptors and proteins such as P2Y1 and P2Y2 further establishing its role in coordinating cellular responses through nucleotide signaling.
Associated diseases and disorders	The P2Y8 receptor is connected to inflammatory diseases where aberrant signaling may lead to excessive or prolonged inflammation. Additionally alterations or disruptions in P2Y8 function have been implicated in certain autoimmune disorders. The receptor's link with proteins such as P2Y1 and P2X7 influences its involvement in these disease pathways potentially offering targets for therapeutic intervention and contributing to our understanding of disease mechanisms.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

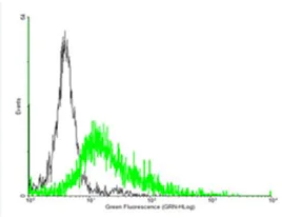
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:

1 product image



Flow Cytometry - Anti-P2Y8 antibody (ab169392)

P2Y8 Flow Cytometry staining using mouse Anti-P2Y8 antibody

Flow cytometric analysis of negative control 293 cells (Black) and P2Y8 expressing 293 cells (Green) using ab169392.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.