abcam

ab175365

Anti-P2Y13 antibody [2H1G9]

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	Preservative: 0.05% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Fragment Protein within Human P2RY13 aa 1-50. The exact immunogen used to generate this antibody is proprietary information. Database link Q9BPV8
Clone number	2H1G9
Purification technique	Affinity purification Protein G
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified from tissue culture supernatant.

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1/200 - 1/400

Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

WB

Tested

Species	Human
Dilution info	1/500 - 1/2000
Notes	-

Target data

See full target information P2RY13

Function	Receptor for ADP. Coupled to G(i)-proteins. May play a role in hematopoiesis and the immune system.

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
Storage information	Avoid freeze / thaw cycle

Supplementary info

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

Activity summary	P2Y13 also known as P2RY13 is a G-protein coupled receptor part of the P2Y receptor family. It has a mass of approximately 42 kDa. Functionally P2Y13 recognizes extracellular nucleotides like ADP and initiates signaling cascades thereafter. This receptor is expressed in various tissues including the brain liver

	and immune cells. In the nervous system it plays a role in neurotransmission and might influence neuronal functions.
Biological function summary	P2Y13 participates in purinergic signaling. This pathway influences cellular responses and plays a role in multiple physiological processes. P2Y13 is not known to form part of a larger receptor complex but interacts with G-proteins to transmit signals within the cell. Its activity helps regulate lipid metabolism and influences energy homeostasis in the body.
Pathways	P2Y13 is involved in the ADP-mediated signaling pathway a critical component in the regulation of cholesterol and lipid metabolism. It interacts with proteins like G-protein subunits to activate downstream signaling pathways. In the broader context of these pathways P2Y13 supports cellular processes such as energy balance and detoxification of substances.
Associated diseases and disorders	P2Y13 has been connected with cholesterol imbalance and related metabolic disorders. Its role in lipid homeostasis indicates it might be relevant in atherosclerosis a condition characterized by lipid accumulation in the arteries. P2Y13 also associates with neurological disorders due to its presence and role in neural tissues. It is connected to other purinergic receptors like P2Y12 in these disease contexts which collectively contribute to disease progression through dysregulated purinergic signaling.

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

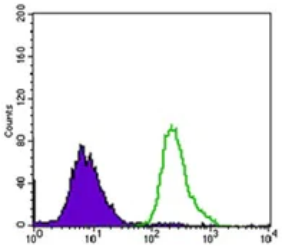
We do not recommend this combination. It is not covered by our product promise.

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:
Terms & Conditions.

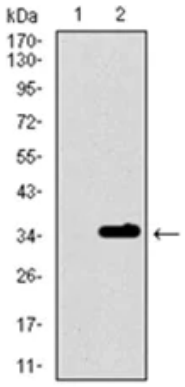
3 product images



Flow Cytometry - Anti-P2Y13 antibody [2H1G9] (ab175365)

P2Y13 Flow Cytometry staining using mouse Anti-P2Y13 antibody

Flow cytometric analysis of HepG2 cells labeling P2Y13 using ab175365 at 1/200 dilution (green), and negative control (purple).



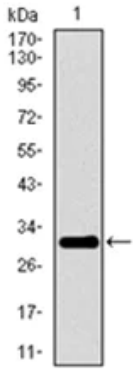
Western blot - Anti-P2Y13 antibody [2H1G9] (ab175365)

All lanes:
Western blot - Anti-P2Y13 antibody [2H1G9] (ab175365) at 1/500 dilution

Lane 1:
non transfected HEK293 cell lysate.

Lane 2:
P2Y13 (aa 1–49)-hIgGFc transfected HEK293 cell lysate.

Predicted band size: 28 kDa, 41 kDa



Western blot - Anti-P2Y13 antibody [2H1G9] (ab175365)

Expected MW is 31.6 kDa
All lanes:
Western blot - Anti-P2Y13 antibody [2H1G9] (ab175365) at 1/500 dilution

All lanes:
Human P2Y13 recombinant protein

Predicted band size: 41 kDa

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