

PE anti-human P2RY12 Antibody

Catalog# / Size	392103 / 25 tests 392104 / 100 tests
Clone	S16001E
Regulatory Status	RUO
Other Names	ADPG-R, BDPLT8, HORK3, P2T(AC), P2Y(12)R, P2Y(AC), P2Y(ADP), P2Y(cyc), P2Y12 platelet ADP receptor, purinergic receptor P2RY12, purinergic receptor P2Y, G-protein coupled
Isotype	Mouse IgG2a, κ
Description	P2RY12 is a receptor for ADP and ATP coupled to G-proteins that inhibit the adenylyl cyclase second messenger system and is not activated by UDP and UTP. P2RY12 is required for normal platelet aggregation and blood coagulation, and is a target to inhibit of platelet aggregation in the treatment of thromboembolisms and other clotting disorders. P2RY12 is expressed on platelets, lung, appendix, pituitary and adrenal glands; this molecule is a very useful marker to identify microglial cells in the brain.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human P2RY12-transfected cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	View the video of our collaborator discussing the importance of highly specific monoclonal antibodies for P2RY12 in Microglia research.
Product Citations	<ol style="list-style-type: none">1. Friebe E, <i>et al.</i> 2020. Cell. 181(7):1626-1642.e20. PubMed2. Klemm F, <i>et al.</i> 2020. Cell. 181(7):1643-1660.e17. PubMed3. Bodnar B, <i>et al.</i> 2021. Front Cell Neurosci. 15:682272. PubMed4. Woolf Z, <i>et al.</i> 2021. STAR Protocols. 2(2):100518. PubMed5. Scheiblich H, <i>et al.</i> 2021. Cell. 184:5089. PubMed6. Palacios-Acedo AL, <i>et al.</i> 2021. Front Oncol. 11:704945. PubMed
RRID	AB_2716006 (BioLegend Cat. No. 392103) AB_2716007 (BioLegend Cat. No. 392104)

Antigen Details

Distribution	Platelets, microglia
Function	Inhibit the adenyl cyclase second messenger system
Ligand/Receptor	ADP, ATP
Cell Type	Microglia, Platelets
Biology Area	Cell Biology, Immunology, Innate Immunity, Neuroscience, Neuroscience Cell Markers
Molecular Family	GPCR, Purinergic Receptors
Antigen References	<ol style="list-style-type: none">1. Lecchi A, et al. 2015. <i>Blood</i>. 125:1006.2. Zhang K, et al. 2014. <i>Nature</i>. 509:115.3. Zhang J, et al. 2014. <i>Nature</i>. 509:119.4. Cornelissen I, et al. 2010. <i>Proc. Natl. Acad. Sci. USA</i>. 107:18605.5. Paruchuri S, et al. 2009. <i>J. Exp. Med.</i> 206:2543.
Gene ID	64805

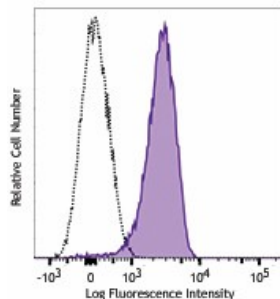
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

PE anti-human P2RY12, Brilliant Violet 421™ anti-human P2RY12, FITC anti-human P2RY12, KIRAVIA Blue 520™ anti-human P2RY12, PE/Dazzle™ 594 anti-human P2RY12, APC anti-human P2RY12

Product Data



Human peripheral blood platelets were stained with P2RY12 (clone S16001E) PE (filled histogram) or mouse IgG2a, κ PE isotype control (open histogram).

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