

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 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l 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

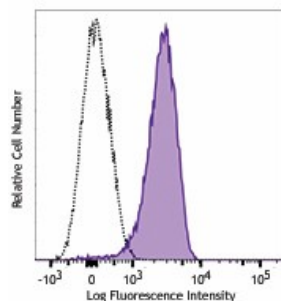
Related Protocols

[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).

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587