

APC/Fire™ 750 anti-human P2RY12 Antibody

Catalog# / Size	392119 / 25 tests 392120 / 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	<p>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.</p> <p>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.</p>

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 APC/Fire™ 750 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
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	<p>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. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 774 nm.</p>
Excitation Laser	Red Laser (633 nm)
Application Notes	View the video of our collaborator discussing the importance of highly specific monoclonal antibodies for P2RY12 in Microglia research.
RRID	AB_3683448 (BioLegend Cat. No. 392119) AB_3683448 (BioLegend Cat. No. 392120)

Antigen Details

Distribution	Platelets, microglia
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Function	Inhibit the adenylyl 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

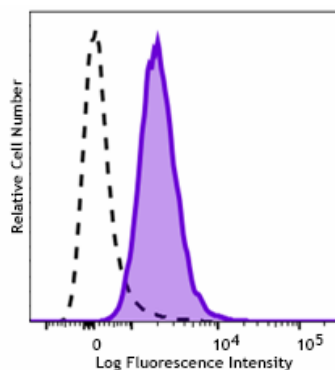
Related Protocols

- [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, Alexa Fluor® 647 anti-human P2RY12, Spark NIR™ 685 anti-human P2RY12, APC/Fire™ 750 anti-human P2RY12

Product Data



Human peripheral blood platelets were stained with anti-human P2RY12 (clone S16001E) APC/Fire™ 750 (filled histogram) or mouse IgG2a, κ APC/Fire™ 750 isotype control (open histogram).

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