

APC/Fire™ 810 anti-P2RY12 Antibody

Catalog# / Size	848013 / 25 µg
Clone	S16007D
Regulatory Status	RUO
Other Names	P2Y12, ADPG-R, BDPLT8, HORK3, P2T(AC), P2Y(12)R, P2Y(AC), P2Y(ADP), P2Y(cyc), P2Y12P2Y12 platelet ADP receptor, purinergic receptor P2RY12, purinergic receptor P2Y, G-protein coupled, 12
Isotype	Rat IgG2b, κ
Description	Purinergic Receptor P2Y (P2RY12) is a receptor for ADP and ATP coupled to G-proteins that inhibit the adenylyl cyclase second messenger system. P2RY12 is not activated by UDP and UTP. Required for normal platelet aggregation and blood coagulation. P2RY12 is a highly selective marker for microglia that specifically distinguishes these cells from other myeloid cells.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse P2RY12.
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 810 under optimal conditions.
Concentration	0.2 mg/mL
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 ≤ 1.0 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* APC/Fire™ 810 has a maximum excitation of 650 nm and a maximum emission of 810 nm.</p> <p>Excessive exposure to light, and commonly used fixation, permeabilization buffers can affect APC/Fire™ 810 fluorescence signal intensity and spread. Please keep conjugates protected from light exposure. For more information and representative data, visit our Fire Dyes page.</p>
Excitation Laser	Red Laser (633 nm)
Application Notes	<p>View the video of our collaborator discussing the importance of highly specific monoclonal antibodies for P2RY12 in Microglia research.</p> <p>Learn more about the validation testing we performed on clone S16007D by watching our Scientific Poster Video.</p>
RRID	AB_2904450 (BioLegend Cat. No. 848013)

Antigen Details

Structure	P2RY12 is a 347 amino acid protein with a molecular mass of 39.8 kD.
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Distribution	Tissue distribution: platelets, brain (microglia), lung, appendix, pituitary and adrenal glands. Cellular distribution: cell membrane and cytosol.
Function	G-protein coupled receptor that inhibits the adenylyl cyclase second messenger system.
Ligand/Receptor	ADP and ATP.
Cell Type	Microglia, Platelets
Biology Area	Cell Biology, Immunology, Innate Immunity, Neuroscience, Neuroscience Cell Markers
Molecular Family	GPCR, Purinergic Receptors
Antigen References	1. Orr AG, <i>et al.</i> 2009. <i>Nat. Neurosci.</i> 12(7):872-8.
Gene ID	70839

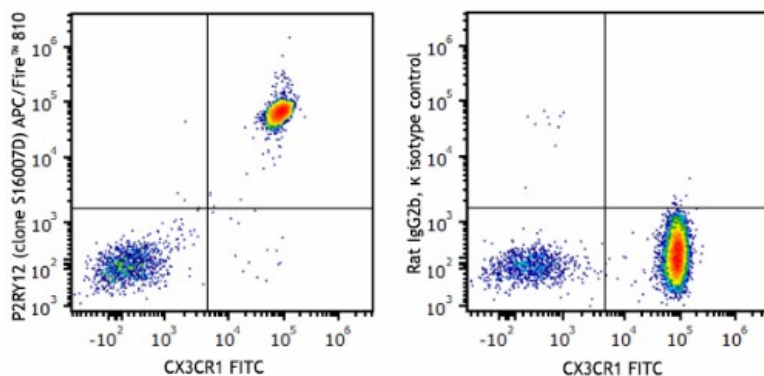
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-P2RY12, PE anti-P2RY12, APC anti-P2RY12, Biotin anti-P2RY12, TotalSeq™-A0415 anti-P2RY12, Spark YG™ 570 anti-P2RY12 Antibody, APC/Fire™ 810 anti-P2RY12, Alexa Fluor® 488 anti-P2RY12

Product Data



Brain from a C57BL/6 mouse was digested with trypsin and microglial cells were enriched with a percoll gradient and then stained with CX3CR1 FITC and anti-P2RY12 (clone S16007D) APC/Fire™ 810 (left) or rat IgG2b, κ isotype control APC/Fire™ 810 (right).

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