Human P2X1/P2RX1 Antibody

Monoclonal Mouse IgG_{2B} Clone # 551820

Catalog Number: MAB10533

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human P2X1/P2RX1 in direct ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 551820
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human embryonic kidney cell, HEK293-derived transfected with human P2X1/P2RX1 Accession # P51575
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

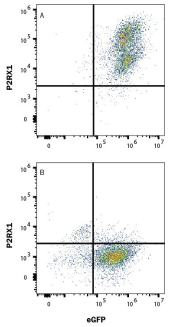
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Flow Cytometry	0.25 µg/10^6 cells	HEK293 Human Cell Line transfected with Human P2X1/P2RX1 and eGFP
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Flow Cytometry



Detection of P2X1/P2RX1 in HEK293 Human Cell Line transfected with Human P2X1/P2RX1 and eGFP by Flow Cytometry HEK293 human embryonic kidney cell line transfected with either (A) human P2X1/P2RX1 or (B) irrelevant protein, and eGFP, was stained with Mouse anti-human P2X1/P2RX1 monoclonal antibody (Catalog # MAB10533) followed by Allophycocyanin-conjugated anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # MAB0041, data not shown). Staining was performed using our Staining Membrane-Associated Proteins protocol.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Biologic responses to ATP, ADP, and other extracellular nucleotides are mediated by P2-nucleotide receptors belonging to 2 major classes: G protein-coupled P2Y receptors and nucleotide-gated ion channel P2X receptors. P2RX1 functions as a ligand-gated ion channel with relatively high calcium permeability. Mouse studies suggest that this receptor is essential for normal male reproductive function. The development of selective antagonists for this receptor may provide an effective non-hormonal male contraceptive pill.

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