Human P2Y10/P2RY10 Antibody

Monoclonal Mouse IgG_{2B} Clone # 639329

Catalog Number: MAB10158

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human P2RY10 in Flow Cytometry and Immunohistochemistry.
Source	Monoclonal Mouse IgG_{2B} Clone # 639329
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human P2RY10 Accession # O00398
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.

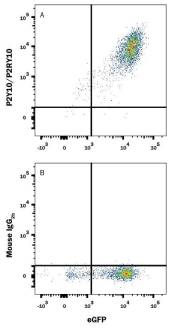
APPLICATIONS

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	See Below
Immunohistochemistry	8-25 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

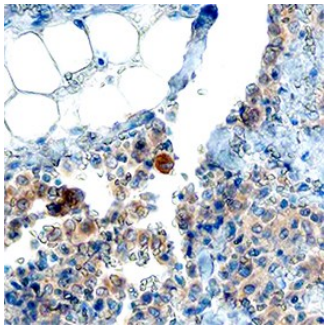
DATA

Flow Cytometry



Detection of P2Y10/P2RY10 in HEK293 Human Cell Line Transfected with Human P2Y10/P2RY10 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with P2Y10/P2RY10 and eGFP was stained with (A) Mouse Anti-Human P2Y10/P2RY10 Monoclonal Antibody (Catalog # MAB10158) or (B) Mouse IgG2B Isotype Control Antibody (Catalog # MAB0041) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). View our protocol for Staining Membrane-associated Proteins.

Immunohistochemistry



P2Y10/P2RY10 in Human Thymus. P2Y10/P2RY10 was detected in immersion fixed paraffin-embedded sections of human thymus using Mouse Anti-Human P2Y10/P2RY10 Monoclonal Antibody (Catalog # MAB10158) at 15 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

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

P2Y receptors are a family of purinergic G protein-coupled receptors which belong to the class A family of GPCRs. They are membrane proteins, preferentially activated by nucleotides such as ADP, ATP, UTP, UDP and UDP-glucose. This P2Y receptor is thought to be a receptor for purines. While there is little known about the activity of this specific receptor, P2Y receptors mediate various biological functions such as vasodilation, blood clotting and immune responses.

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