

Human α-2A Adrenergic R/ADRA2A Antibody

Monoclonal Mouse IgG₁ Clone # 1006614 Catalog Number: MAB10129

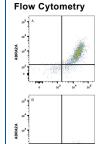
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human α-2A Adrenergic R/ADRA2A in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 1006614
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Synthetic peptide containing Human α-2A Adrenergic R/ADRA2A
Formulation	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: Ontimal 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
CyTOF-ready	Ready to be labeled u with conjugation.	ising established conjugation methods. No BSA or other carrier proteins that could interfere

DATA



Detection of ADRA2A in HEK293 Human Cell Line Transfected with Human ADRA2A and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with either (A) human ADRA2A or (B) irrelevant transfectants and eGFP was stained with Mouse Anti-Human ADRA2A Monoclonal Antibody (Catalog # MAB10129) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # MAB002). View our protocol for Staining Membrane-associated Proteins.

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 nack cize (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

Alpha-2-adrenergic receptors, including ADRA2A, are members of the G protein-coupled receptor superfamily. They include 3 highly homologous subtypes: alpha2A, alpha2B, and alpha2C. These receptors have a critical role in regulating neurotransmitter release from sympathetic nerves and from adrenergic neurons in the central nervous system. Studies in mouse revealed that both ADRA2A and ADRA2C subtypes were required for normal presynaptic control of transmitter release from sympathetic nerves in the heart and from central noradrenergic neurons. The ADRA2A subtype inhibited transmitter release at high stimulation frequencies, whereas the ADRA2C subtype modulated neurotransmission at lower levels of nerve activity.

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