Human β-2 Adrenergic R/ADRB2 Antibody

Monoclonal Mouse IgG_1 Clone # 586107

Catalog Number: MAB100401

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human β-2 Adrenergic R/ADRB2 in direct ELISAs.
Source	Monoclonal Mouse IgG_1 Clone # 586107
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human β-2 Adrenergic R/ADRB2 Accession # P07550
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.

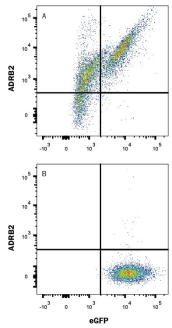
APPLICATIONS

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
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 β-2 Adrenergic R/ADRB2 in HEK293 Human Cell Line Transfected with Human β-2 Adrenergic R/ADRB2 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with (A) human β-2 Adrenergic R/ADRB2 or (B) irrelevant transfectants and eGFP was stained with Mouse Anti-Human β-2 Adrenergic R/ADRB2 Monoclonal Antibody (Catalog # MAB100401) followed by APC-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 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

Beta-2 adrenoceptor (ADRB2) is a 413 amino acids adrenergic receptor expressed in smooth muscle and metabolic tissues. Beta-adrenergic receptors belong to the seven-transmembrane domain/GPCR family of receptors and mediate the catecholamine-induced activation of adenylate cyclase through the action of G proteins. Activation of ADRB2 induces a decrease in gastrointestinal motility, bronchodilation, vasodilation in skeletal and cardiac muscle, and glycogenolysis in liver. Agonists of ADRB2 are most widely used for the treatment of asthma. In complex with beta-arrestin-1 and c-src, the beta-2 adrenergic receptor activates MAP kinases ERK1(MAPK3) and ERK2 (MAPK1). Expression of the beta-2 adrenoceptor has been reported in adipose, blood, brain, heart, lung, nose, pancreas, skeletal muscle, skin, and vessel.

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