

DESCRIPTION

Species Reactivity	Human
Specificity	Stains human β -3 Adrenergic R/ADRB3 transfectants but not irrelevant transfectants in flow cytometry.
Source	Monoclonal Mouse IgG _{2B} Clone # 493324
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human embryonic kidney cell line HEK293-derived transfected with human β -3 Adrenergic R/ADRB3 Met1-Ser408 Accession # P13945
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m filtered solution in PBS.

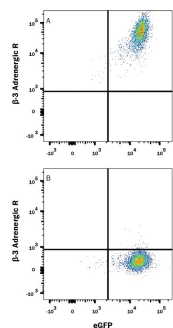
APPLICATIONS

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 μ g/10 ⁶ cells	See Below
Immunocytochemistry	8-25 μ g/mL	See Below

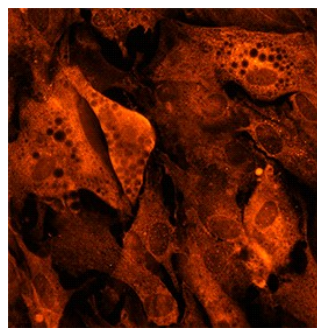
DATA

Flow Cytometry



Detection of β -3 Adrenergic R/ADRB3 in HEK293 Human Cell Line Transfected with Human β -3 Adrenergic R/ADRB3 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with either (A) human β -3 Adrenergic R/ADRB3 or (B) irrelevant transfectants and eGFP was stained with Mouse Anti-Human β -3 Adrenergic R/ADRB3 Monoclonal Antibody (Catalog # MAB9419) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # MAB0041). View our protocol for [Staining Membrane-associated Proteins](#).

Immunocytochemistry



β -3 Adrenergic R/ADRB3 in Human Adipocytes. β -3 Adrenergic R/ADRB3 was detected in immersion fixed human adipocytes using Mouse Anti-Human β -3 Adrenergic R/ADRB3 Monoclonal Antibody (Catalog # MAB9419) at 15 μ g/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

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. <ul style="list-style-type: none"> • 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

ADRB3 belongs to the G protein-coupled receptor 1 family of beta adrenergic receptors. Beta-adrenergic receptors, including ADRB3, mediate the catecholamine-induced activation of adenylate cyclase through the action of G proteins. ADRB3 is involved in the regulation of lipolysis and thermogenesis. A variant of ADRB3 seems to be associated with weight gain (obesity).