



Monoclonal Anti-human ADRA1B Antibody

ORDERING INFORMATION

Catalog Number: MAB4730

Clone: 471802

Lot Number: CARQ02

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS with 5% trehalose

Storage: -20° C

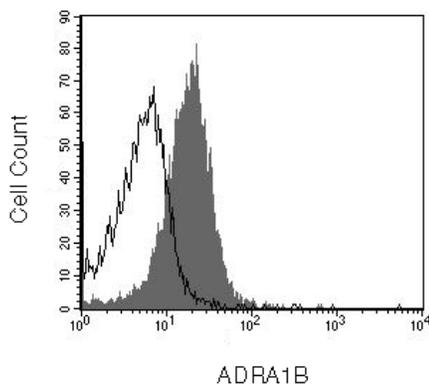
Reconstitution: sterile PBS

Specificity: human ADRA1B

Immunogen: NS0 cells transfected with human ADRA1B

Ig class: mouse IgG_{2b}

Recommended Application:
Flow cytometry



PC-3 cells were stained with anti-ADRA1B (R&D Systems, Cat. # MAB4730, clone 471802, filled histogram) or isotype control (R&D Systems, Cat. # MAB0041, open histogram) followed by APC-conjugated anti-mouse antibody (R&D Systems, Cat. # F0101B).

Background

ADRA1B, also known as the α -1B-adrenergic receptor, is a 90 kDa 7TM catecholamine receptor with selectivity for epinephrine and norepinephrine. Formation of homooligomers and heterooligomers with ADRA1A enables receptor internalization following ligand binding. ADRA1B functions in diverse settings including vasoconstriction and myocardial contractility, neuronal dopaminergic responses, dendritic cell migration and inflammatory responses, and neuroendocrine regulation of fertility. Human ADRA1B shares 95% amino acid sequence identity with mouse and rat ADRA1B.

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with NS0 cells transfected with human ADRA1B (Accession # P35368). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.2 mL of PBS is used, the antibody concentration will be 500 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody stains human ADRA1B transfectants but not irrelevant transfectants.

Application

Flow cytometry - This antibody was tested for flow cytometry using PC-3 cells. For intracellular staining to detect ADRA1B, cells must first be fixed and permeabilized using 4% paraformaldehyde and 0.1% saponin in PBS. Dilute this antibody to 25 µg/mL and add 10 µL of the diluted solution to 1 - 5 x 10⁵ cells in a total reaction volume not exceeding 200 µL. The binding of unlabeled monoclonal antibodies may be visualized by adding a secondary developing reagent such as anti-mouse IgG conjugated to a fluorochrome.

Optimal dilutions should be determined by each laboratory for each application.

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R&D Systems, Inc.
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7/21/08