

Human/Mouse/Rat β-2 Adrenergic R/ADRB2 Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2204C Catalog Number: MAB10040

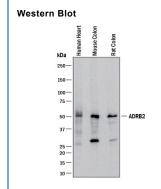
| DESCRIPTION | | |
|--------------------|--|--|
| Species Reactivity | Reactivity Human/Mouse/Rat | |
| Specificity | Detects human β -2 Adrenergic R/ADRB2 in direct ELISAs. Detects human, mouse, and rat β -2 Adrenergic R/ADRB2 in Western blots. | |
| Source | Recombinant Monoclonal Rabbit IgG Clone # 2204C | |
| Purification | Protein A or G purified from cell culture supernatant | |
| Immunogen | Synthetic peptide containing 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 |
|--------------|------------------------------|-----------|
| Western Blot | 2 μg/mL | See Below |

DATA



Detection of Human, Mouse, and Rat β-2 Adrenergic R/ADRB2 by Western Blot. Western blot shows lysates of human heart tissue, mouse colon tissue, and rat colon tissue. PVDF membrane was probed with 2 μg/mL of Rabbit Anti-Human/Mouse/Rat β-2 Adrenergic R/ADRB2 Monoclonal Antibody (Catalog # MAB10040) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for β-2 Adrenergic R/ADRB2 at approximately 55 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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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