

Anti-Beta-2 Adrenergic Receptor Antibody

Catalog # AP95652

Product Information

Application	WB, FC
Primary Accession	P07550
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	46459

Additional Information

Gene ID	154
Other Names	ADRB2R; B2AR; Beta-2 adrenergIC, receptor; Beta-2 adrenoreceptor; Beta-2 adrenoceptor
Target/Specificity	Recombinant fusion protein of human Beta-2 Adrenergic Receptor expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) FC~~FC (1/100 - 1/200)
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

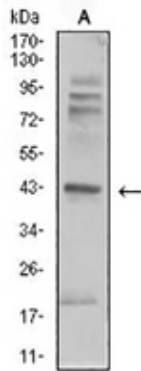
Name	ADRB2 (HGNC:286)
Synonyms	ADRB2R, B2AR
Function	G protein-coupled receptor for catecholamines that couples to both G(s) and G(i) proteins, activating bifurcated signaling pathways (PubMed: 2831218 , PubMed: 7915137). ADRB2 binds epinephrine (Epi) with an approximately 30-fold greater affinity than norepinephrine (NE) (PubMed: 2831218 , PubMed: 33093660 , PubMed: 7915137). In the heart, Epi- and NE-activated ADRB2 induces rapid and slow cardiomyocyte contraction rate, respectively (By similarity). Both NE and Epi promote coupling to G(s)/PKA pathway to regulate myocyte contraction rate (By similarity). Epi also promotes ADRB2 coupling to G(i) proteins to exert cardioprotective effects especially in the conditions of hypoxia and oxidative stress through the G(i)/PI3K/Akt signaling pathway (By similarity). ADRB2-G(s) signaling delivers proapoptotic signals in cardiomyocytes although G(i)-mediated survival effect appears to predominate (By similarity). ADRB2 also transduces signals independently of PKA to regulate cellular pH by modulating Na(+)/H(+) exchanger SLC9A3

function (PubMed:[9560162](#)).

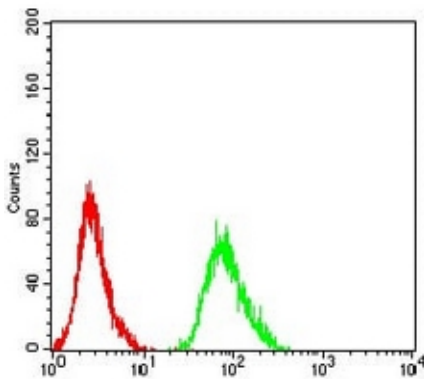
Cellular Location

Cell membrane; Multi-pass membrane protein. Golgi apparatus.
Note=Colocalizes with VHL at the cell membrane (PubMed:19584355).
Activated receptors are internalized into endosomes prior to their degradation in lysosomes (PubMed:20559325). Activated receptors are also detected within the Golgi apparatus (PubMed:27481942).

Images



Western blot analysis of Beta-2 Adrenergic Receptor expression in C6 (A) whole cell lysates. (Predicted band size: 47 kD; Observed band size: 43 kD)



Flow cytometric analysis of MCF7 cells using Anti-Beta-2 Adrenergic Receptor Antibody (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.