Datasheet for ABIN2192080

anti-beta 2 Adrenergic Receptor antibody

2 Publications

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Overview

Quantity:	100 µg
Target:	beta 2 Adrenergic Receptor (ADRB2)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This beta 2 Adrenergic Receptor antibody is un-conjugated
Application:	Flow Cytometry (FACS), Functional Studies (Func), Immunoassay (IA)

Product Details

Clone:	6H8
Isotype:	IgG1
Cross-Reactivity (Details):	Cross reactivity: Rat : Yes, Guinea Pig : Yes
Sterility:	0.2 µm filtered

Target Details

Target:	beta 2 Adrenergic Receptor (ADRB2)
Alternative Name:	Beta2-Adrenoceptor (ADRB2 Products)
Background:	The monoclonal antibody 6H8 recognizes human beta2-adrenoceptor. The b -adrenoceptors can be divided into b1, b2, b3 and b4-adrenoceptors defined in terms of agonist potencies, b2-adrenoceptors displayed a higher selectivity for nor-adrenaline than for adrenaline. B2-receptors are mainly postsynaptic and are located on a number of tissues including blood vessels,

Target Details

	bronchi, GIT, skeletal muscle, liver and mast cell. Activation results in vasodilatation, bronchodilation, relaxation of the GIT, glycogenolysis in the liver, tremor in skeletal muscle and inhibition of histamine release from mast cells. Transduction is via G-proteins coupled to the intracellular second messenger adenylate cyclase. B- receptors are positively coupled to adenylate cyclase via activation of Gs G-protein, however activation of the b2-adrenoceptors results in stimulation and inhibition of adenylate cyclase. The b2- receptor selective agonists are widely used in the treatment of asthma and other related bronchospastic conditions. They are commonly used in the treatment of angina pectoris, cardiac arrhythmia and for the long-term treatment of patients who survive myocardial infarction. B-receptor antagonists have also been used as anti-hypertensive for a number of years. Beta -blockers have also proven useful in the treatment of conditions such as migraine, anxiety disorders, hyperthyroidism, alcohol withdrawal and when applied topically are useful in the treatment of glaucoma and ocular hypertension. Immunogen Free peptide Beta2-H19C
Pathways:	cAMP Metabolic Process, Synaptic Membrane, Regulation of G-Protein Coupled Receptor Protein Signaling, Brown Fat Cell Differentiation

Application Details

Application Notes:	For flow cytometry, dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50. For functional studies, in vitro dilutions have to be optimized in user's experimental setting. Positive Human epidermoid carcinoma cell A431 line control
Restrictions:	For Research Use only

Handling

Buffer:	PBS, containing 0.1 % bovine serum albumin
Storage:	4 °C
Storage Comment:	Product should be stored at 4 °C. Under recommended storage conditions, product is stable for at least one year. The exact expiry date is indicated on the label.

Publications

Product cited in:	Mijares, Lebesgue, Wallukat, Hoebeke: "From agonist to antagonist: Fab fragments of an agonist-like monoclonal anti-beta(2)-adrenoceptor antibody behave as antagonists." in:

Molecular pharmacology, Vol. 58, Issue 2, pp. 373-9, (2000) (PubMed).

Lebesgue, Wallukat, Mijares, Granier, Argibay, Hoebeke: "An agonist-like monoclonal antibody against the human beta2-adrenoceptor." in: **European journal of pharmacology**, Vol. 348, Issue 1, pp. 123-33, (1998) (PubMed).