

Datasheet for ABIN7072671

Recombinant anti-beta 2 Adrenergic Receptor antibody



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1 Image

Overview

Quantity:	200 µg
Target:	beta 2 Adrenergic Receptor (ADRB2)
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Chimeric
Conjugate:	This beta 2 Adrenergic Receptor antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Purpose:	Anti-Beta 2 adrenergic receptor [13D6], Rabbit IgG, kappa
Immunogen:	This antibody was raised by immunizing mice with beta-2 adrenergic receptor.
Clone:	13D6
Isotype:	IgG kappa
Specificity:	13D6 antibody recognizes human beta-2 adrenergic receptor. It was reported that this antibody recognizes extracellular domains of the receptor (Han et al., 2012). Beta-adrenergic receptors mediate the catecholamine-induced activation of adenylate cyclase through the action of G proteins. The beta-2-adrenergic receptor binds adrenaline with far greater affinity than noradrenaline.
Characteristics:	Original Species of Ab: Mouse Original Format of Ab: IgG1

Product Details

Purification: Protein A affinity purified

Target Details

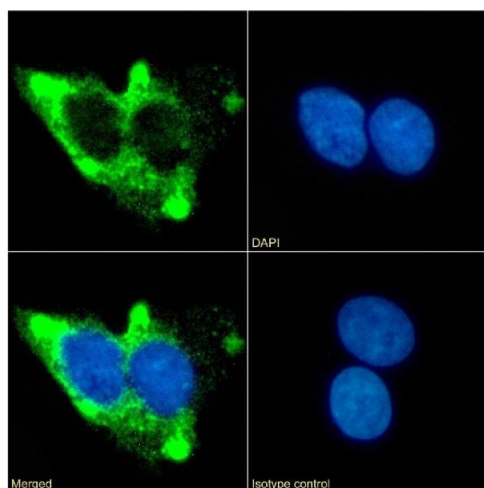
Target:	beta 2 Adrenergic Receptor (ADRB2)
Alternative Name:	Beta 2 adrenergic receptor (ADRB2 Products)
Background:	R11E1, Beta-2 adrenergic receptor, Beta-2 adrenoreceptor, Beta-2 adrenoceptor, β -2 adrenergic receptor, β -2 adrenoreceptor, β -2 adrenoceptor, β 2AR, β 2-AR, I3D6
UniProt:	P07550
Pathways:	cAMP Metabolic Process , Synaptic Membrane , Regulation of G-Protein Coupled Receptor Protein Signaling , Brown Fat Cell Differentiation

Application Details

Application Notes:	This antibody is recommended for the identification and analysis of the β 2-adrenergic receptor. For instance, it was used to immunostain vascular smooth muscle cells (VSMCs) against beta-2-adrenergic receptor to determine the fate of beta-2ARs ubiquitinated in a carvedilol responsive manner (Han et al., 2012). Furthermore, the antibody was utilized in the quantification of the surface level of β -2ARs via ELISA (Han et al., 2012).
Comment:	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	PBS with 0.02 % Proclin 300.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.



Immunofluorescence

Image 1. Immunofluorescence staining of fixed HepG2 cells with anti-Beta 2 adrenergic receptor antibody 13D6. Immunofluorescence analysis of paraformaldehyde fixed HepG2 cells on Shi-fix™ coverslips stained with the chimeric rabbit IgG version of 13D6 (ABIN7072671) at 10 µg/mL for 1h followed by Alexa Fluor® 488 secondary antibody (2 µg/mL), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom ABIN7072671, DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody (ABIN5668079) followed by staining with Alexa Fluor® 488 secondary antibody.