

# Human $\beta$ -2 Adrenergic R/ADRB2 Alexa Fluor® 594-conjugated Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 586107

Catalog Number: FAB100401T

100  $\mu$ g

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human $\beta$ -2 Adrenergic R/ADRB2 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 586107
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	NS0 mouse myeloma cell line transfected with human $\beta$ -2 Adrenergic R/ADRB2 Accession # P07550
<b>Conjugate</b>	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

## 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
<b>Flow Cytometry</b>	0.25-1 $\mu$ g/10 <sup>6</sup> cells	HEK293 Human Cell Line Transfected with Human $\beta$ -2 Adrenergic R/ADRB2 and eGFP

## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## 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.

## PRODUCT SPECIFIC NOTICES

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