

Datasheet: MCA2784

BATCH NUMBER 155270

Description:	MOUSE ANTI HUMAN BETA-2 ADRENERGIC RECEPTOR
Specificity:	BETA-2 ADRENERGIC RECEPTOR
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	R11E1
Isotype:	IgG1
Quantity:	0.2 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/25
Immunohistology - Frozen			▪	
Immunohistology - Paraffin	▪			
ELISA	▪			
Immunoprecipitation	▪			
Western Blotting			▪	
Immunofluorescence	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Does not react with: Mouse, Rat
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Purified human Beta-2 adrenergic receptor.
External Database Links	<p>UniProt:</p> <p>P07550 Related reagents</p> <p>Entrez Gene:</p> <p>154 ADRB2 Related reagents</p>
Synonyms	ADRB2R, B2AR
RRID	AB_10848357
Fusion Partners	Cells from immunised Balb/c mice were fused with cells of the X63Ag8.653 myeloma cell line.
Specificity	<p>Mouse anti Human beta-2 Adrenergic Receptor antibody, clone R11E1 recognizes human beta 2 adrenergic receptor (beta2AR), a member of the G protein-coupled receptor superfamily. Beta1 and Beta2 adrenergic receptors are functionally similar but have different affinities for the ligands adrenaline and noradrenaline. B2A receptors co-exist with the B1A receptors but one subtype usually predominates. B2A receptors have a higher affinity for adrenaline and mediate the relaxation of smooth muscle including bronchus, intestine & uterus. They are located presynaptically in the nerves, where they facilitate neurotransmitter release in the brain and regulate a variety of physiological processes. Ligand binding of the B2A receptor leads to the activation of adenylyl cyclase through interaction with the GTP-binding protein Gs.</p>
Flow Cytometry	<p>Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul.</p> <p>MCA2784 performs best when used with a biotinylated secondary anti mouse IgG antibody such as STAR11B, followed by Streptavidin:FITC (STAR2B).</p>
Further Reading	<p>1. Frielle, T. <i>et al.</i> (1989) Properties of the beta 1- and beta 2-adrenergic receptor subtypes revealed by molecular cloning. Clin Chem. 35 (5): 721-5.</p>
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch

Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2784 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
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