

Datasheet: MCA2784

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	0.09% Sodium Azide (NaN ₃)

Stabilisers

Carrier Free Yes

Approx. Protein Concentrations IgG concentration 1.0mg/ml

Immunogen Purified human Beta-2 adrenergic receptor.

External Database Links

UniProt:
[P07550](#) [Related reagents](#)

Entrez Gene:
[154](#) [ADRB2](#) [Related reagents](#)

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 **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.

Flow Cytometry Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul. MCA2784 performs best when used with a biotinylated secondary anti mouse IgG antibody such as [STAR11B](#), followed by Streptavidin:FITC ([STAR2B](#)).

References 1. Patinec, A. *et al.* (2019) Alterations of the iNKT cell compartment in brain-injured patients. [Crit Care. 23 \(1\): 234.](#)

Further Reading 1. Frielle, T. *et al.* (1989) Properties of the beta 1- and beta 2-adrenergic receptor subtypes revealed by molecular cloning. [Clin Chem. 35 \(5\): 721-5.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in

frost-free freezers is not recommended.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR9...)	FITC

Recommended Negative Controls

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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
'M382749:210513'

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