

## Datasheet: MCA2784GA

<b>Description:</b>	MOUSE ANTI HUMAN BETA-2 ADRENERGIC RECEPTOR
<b>Specificity:</b>	BETA-2 ADRENERGIC RECEPTOR
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	R11E1
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Does not react with: Mouse, Rat
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )

## Stabilisers

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Carrier Free Yes

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Approx. Protein Concentrations IgG concentration 1.0mg/ml

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Immunogen Purified human Beta-2 adrenergic receptor.

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## External Database Links

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

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

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Synonyms ADRB2R, B2AR

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RRID AB\_10844207

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Fusion Partners Cells from immunised Balb/c mice were fused with cells of the X63Ag8.653 myeloma cell line.

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**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.

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**Flow Cytometry**      Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul. MCA2784GA performs best when used with a biotinylated secondary anti mouse IgG antibody such as [STAR11B](#), followed by Streptavidin:FITC ([STAR2B](#)).

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

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**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.](#)

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**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.

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

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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://bio-rad-antibodies.com/datasheets)  
'M382750:210513'

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