

## Datasheet: MCA1329GA

<b>Description:</b>	MOUSE ANTI HUMAN ACETYLCHOLINE RECEPTOR BETA
<b>Specificity:</b>	AChR BETA
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	B3
<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	▪			1/100 - 1/1000

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, Chicken, Rat
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml

<b>Immunogen</b>	Human Acetylcholine Receptor (AChR).
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P11230</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">1140</a>   CHRNB1   <a href="#">Related reagents</a></p>
<b>Synonyms</b>	ACHRB, CHRNB
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the NS1 mouse myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human Acetylcholine Receptor beta antibody, clone B3</b> exhibits homogenous, high avidity binding to the beta subunit of nicotinic AChR, an integral membrane and cholinergic receptor, consisting of four further subunits: alpha, delta, gamma (immature muscle) and epsilon (mature muscle).</p> <p>The binding of the neurotransmitter acetylcholine to AChR, results in conformational change affecting all subunits, and initiates the opening of an ion-conducting channel across the plasma membrane of certain neurons, and neuromuscular junctions.</p> <p>Mouse anti Human Acetylcholine Receptor beta antibody, clone B3 has been shown to bind to recombinant AChR beta in Western blotting .</p>
<b>References</b>	<ol style="list-style-type: none"> <li>Whiting, P.J. <i>et al.</i> (1986) Monoclonal antibodies that distinguish between normal and denervated human acetylcholine receptor. <a href="#">J Neuroimmunol. 11 (3): 223-35.</a></li> <li>Roberts, A. <i>et al.</i> (1992) Search for cross reactive idiotypes on monoclonal and myasthenia gravis acetylcholine receptor antibodies. <a href="#">Autoimmunity 21: 53-60.</a></li> <li>Heidenreich F. <i>et al.</i> (1988) Differences in fine specificity of anti-acetylcholine receptor antibodies between subgroups of spontaneous myasthenia gravis of recent onset and of penicillamine induced myasthenia. <a href="#">Autoimmunity 2: 31-37.</a></li> <li>Whiting, P.J. <i>et al.</i> (1986) Myasthenia gravis: monoclonal antihuman acetylcholine receptor antibodies used to analyze antibody specificities and responses to treatment. <a href="#">Neurology. 36 (5): 612-7.</a></li> <li>Schluep, M. <i>et al.</i> (1987) Acetylcholine receptors in human thymic myoid cells in situ: an immunohistological study. <a href="#">Ann Neurol. 22 (2): 212-22.</a></li> </ol>
<b>Storage</b>	<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>
<b>Guarantee</b>	12 months from date of despatch
<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>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

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

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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