Datasheet: MCA1329GA

Description:	MOUSE ANTI HUMAN ACETYLCHOLINE RECEPTOR BETA
Specificity:	AChR BETA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	B3
Isotype:	IgG1
Quantity:	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.

	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.

Target Species	Human
Species Cross Reactivity	Does not react with:Mouse, Chicken, Rat
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen	Human Acetylcholine Receptor (AChR).
External Database Links	**UniProt:** P11230 Related reagents **Entrez Gene:** 1140 CHRNB1 Related reagents
Synonyms	ACHRB, CHRNB
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the NS1 mouse myeloma cell line.
Specificity	**Mouse anti Human Acetylcholine Receptor beta antibody, clone B3** exhibits homogenous, high avidity binding to the beta subunit of nicotinc AChR, an integral membrane and cholinergic receptor, consisting of four further subunits: alpha, delta, gamma (immature muscle) and epsilon (mature muscle). 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. Mouse anti Human Acetylcholine Receptor beta antibody, clone B3 has been shown to bind to recombinant AChR beta in Western blotting
References	1. Whiting, P.J. *et al.* (1986) Monoclonal antibodies that distinguish between normal and denervated human acetylcholine receptor. J Neuroimmunol. 11 (3): 223-35. 2. Roberts, A. *et al*. (1992) Search for cross reactive idiotypes on monoclonal and myasthenia gravis acetylcholine receptor antibodies. Autoimmunity 21: 53-60. 3. Heidenreich F. *et al*. (1988) Differences in fine specificity of anti-acetylcholine receptor antibodies between subgroups of spontaneous myasthenia gravis of recent onset and of penicillamine induced myasthenia. Autoimmunity 2: 31-37. 4. Whiting, P.J. *et al.* (1986) Myasthenia gravis: monoclonal antihuman acetylcholine receptor antibodies used to analyze antibody specificities and responses to treatment. Neurology. 36 (5): 612-7. 5. Schluep, M. *et al.* (1987) Acetylcholine receptors in human thymic myoid cells in situ: an immunohistological study. Ann Neurol. 22 (2): 212-22.
Storage	Store at +4^{o}C or at -20^{o}C if preferred. Storage in frost-free freezers is not recommended. 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.
Shelf Life	18 months from the date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A)
HUMAN SEROBLOCK (BUF070B)

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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