

Datasheet: MCA6324 BATCH NUMBER 155794

Description:	RABBIT ANTI GLUTAMATE RECEPTOR 1 (pSer845)				
Specificity:	GLUTAMATE RECEPTOR 1 (pSer845)				
Format:	Purified				
Product Type:	Monoclonal Antibody				
Clone:	RM296				
Isotype:	IgG				
Quantity:	0.1 ml				

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 <u>www.bio-</u>						
	rad-antibodies.com/protocols.						
		Yes	No	Not Determined	Suggested Dilution		
	Immunohistology - Paraffin	-			1/500 - 1/1000		
	Western Blotting	-			1/1000 - 1/2000		
	Where this product has r	not been te	ested for	use in a particular tech	nique 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	Based on sequence similarity, is expected to react with:Mouse, Rat						
Reactivity	N.B. Antibody reactivity and working conditions may vary between species. Cross						
	reactivity is derived from testing within our laboratories, peer-reviewed publications or						
	personal communication	•		••	•		
	further information.		e nginan				
Product Form	Purified IgG - liquid						
Preparation	Purified IgG prepared by	affinity ch	romatog	raphy of Protein A from	n animal origin-free		
	culture supernatant						
Buffer Solution	Phosphate buffered salin	e					
Preservative	0.09% Sodium Azide						

Stabilisers	1% Bovine Serum Albumin 50% Glycerol						
Immunogen	A phospho-peptide corresponding to Human glutamate receptor 1 (pSer845)						
External Database Links	UniProt: <u>P42261</u> <u>Related reagents</u> Entrez Gene: <u>2890</u> GRIA1 <u>Related reagents</u>						
Synonyms	GLUH1, GLUR1						
Specificity	Rabbit anti Human glutamate receptor 1 (pSer845) antibody recognizes glutamate receptor 1, also known as GRIA1, GLUA1, GLUR1, when phosphorylated at serine 845. Glutamate is the most abundant excitatory neurotransmitter in the vertebrate brain, and glutamate binding to glutamate receptors leads to activation of downstream neurons (Zhu and Gouaux 2018). The GRIA gene encodes a subunit of the ionotropic glutamate receptor (iGluRs), a ligand-gated ion channel which regulates neuronal excitability at the synaptic cleft (Yu and Lau 2017). Disrupted functions of glutamergic synapses are common in many cognitive and neuropsychiatric disorders, leading to imbalances between neuronal excitation and inhibition. Consistent with this, iGluRs have emerged as potential drug targets for szhizophrenia, depression, and addiction (Reiner and Levitz 2019). Polymorphisms in GRIA1 appears to be a migraine-related gene (Gao and Wang 2018). Glutamate receptor 1 appears to play a role in mediating the growth and progression of triple-negative breast cancer, and also appears to play a role in melanoma (Speyer et al. 2014). Phosphorylation of glutamate receptor 1 at serine 845 is involved in AMPA receptor trafficking (Lee et al. 2000).						
Storage	Store at -20°C only. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use						
Guarantee	12 months from date of despatch						
Health And Safety Information	Material Safety Datasheet documentation #10048 available at: https://www.bio-rad-antibodies.com/SDS/MCA6324 10048						
Regulatory	For research purposes only						

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)FITCGoat Anti Rabbit IgG (H/L) (STAR124...)HRP

Goat Ant	i Rabbit IgG (Fc) (ST	AR121) <u>Bioti</u>	n, <u>FITC, HRP</u>		
Sheep A	nti Rabbit IgG (STAR	35) <u>RPE</u>			
Sheep A	nti Rabbit IgG (STAR	36) <u>DyLi</u>	<u>ght®488</u> , <u>DyLight®680</u> ,	DyLight®80	<u>0</u>
North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
Email: antibody_sales_us@bio-rad.com		pio-rad.com	Email: antibody_sales_uk@bio	Email: antibody_sales_de@bio-rad.com	

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M376301:210127'

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