Datasheet: MCA2398 BATCH NUMBER 151412

Description:	RAT ANTI MOUSE MHC CLASS I H-2b/d/p/q/w16
Specificity:	MHC CLASS I H-2b/d/p/q/w16
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	ER-HR52
lsotype:	lgG2a
Quantity:	0.25 mg

Product Details

Applications	This product has been reported to work in the following applications. This information 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-rad-antibodies.com/protocols</u> .					
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry	-			1/50 - 1/200	
	Immunohistology - Frozen	-				
	Immunohistology - Paraffin			•		
	ELISA			-		
	Immunoprecipitation					
	Western Blotting					
	Immunofluorescence	•				
	necessarily exclude its us a guide only. It is recomn system using appropriate	nended th	nat the use	er titrates the antibody	с с	
Target Species	Mouse					
Product Form	Purified IgG - liquid					
Preparation	Purified IgG prepared by supernatant	affinity cl	nromatogr	aphy on Protein G fro	m tissue culture	
Buffer Solution	Phosphate buffered salin	e				
Preservative Stabilisers	0.09% Sodium Azide					

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Adherent FI (CBAXBL) bone marrow stromal cells.
RRID	AB_872030
Fusion Partners	Cells from immunised rats were fused with cells of the mouse P3-X63-Ag8.563 myeloma cell line.
Specificity	Rat anti Mouse MHC Class I H-2b/D/P/Q/w16 antibody, clone ER-HR52 recognizes a polymorphic epitope present on murine MHC class I molecules, which are expressed at varying levels on the majority of nucleated cells.
	Clone ER-HR52 specifically recognizes mouse strains with the haplotypes H-2b, w16 and H-2d, p, q. Mouse strains with the haplotypes H-2f, r, s, w17, w23, w27 show weak reactivity with this antibody.
	The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In mice, this complex is referred to as the histocompatibility 2 (H-2) region.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
Flow Cytometry References	 Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul. 1. Medana, I. <i>et al.</i> (2001) Transection of major histocompatibility complex class I-induced neurites by cytotoxic T lymphocytes. Am J Pathol. 159 (3): 809-15. 2. Lv, D. <i>et al.</i> (2015) Neuronal MHC Class I Expression Is Regulated by Activity Driven Calcium Signaling. PLoS One. 10 (8): e0135223. 3. Himoudi, N. <i>et al.</i> (2009) Migratory and antigen presentation functions of IFN-producing killer dendritic cells. Cancer Res. 69 (16): 6598-606. 4. Liu, J. <i>et al.</i> (2015) Spatial-Temporal Expression of Non-classical MHC Class I Molecules in the C57 Mouse Brain. Neurochem Res. 40 (7): 1487-96. 5. Liu, J. <i>et al.</i> (2013) The expression pattern of classical MHC class I molecules in the development of mouse central nervous system. Neurochem Res. 38 (2): 290-9. 6. Lv, D. <i>et al.</i> (2014) The similar expression pattern of MHC class I molecules in human and mouse cerebellar cortex. Neurochem Res. 39 (1): 180-6. 7. Sobue, A. <i>et al.</i> (2018) Astroglial major histocompatibility complex class I following immune activation leads to behavioral and neuropathological changes. Glia. Jan 30 [Epub ahead of print].
	 Medana, I. <i>et al.</i> (2001) Transection of major histocompatibility complex class I-induced neurites by cytotoxic T lymphocytes. <u>Am J Pathol. 159 (3): 809-15.</u> Lv, D. <i>et al.</i> (2015) Neuronal MHC Class I Expression Is Regulated by Activity Driven Calcium Signaling. <u>PLoS One. 10 (8): e0135223.</u> Himoudi, N. <i>et al.</i> (2009) Migratory and antigen presentation functions of IFN-producing killer dendritic cells. <u>Cancer Res. 69 (16): 6598-606.</u> Liu, J. <i>et al.</i> (2015) Spatial-Temporal Expression of Non-classical MHC Class I Molecules in the C57 Mouse Brain. <u>Neurochem Res. 40 (7): 1487-96.</u> Liu, J. <i>et al.</i> (2013) The expression pattern of classical MHC class I molecules in the development of mouse central nervous system. <u>Neurochem Res. 38 (2): 290-9.</u> Lv, D. <i>et al.</i> (2014) The similar expression pattern of MHC class I molecules in human and mouse cerebellar cortex. <u>Neurochem Res. 39 (1): 180-6.</u> Sobue, A. <i>et al.</i> (2018) Astroglial major histocompatibility complex class I following immune activation leads to behavioral and neuropathological changes. <u>Glia. Jan 30 [Epub</u>
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	as this may denature the antibody.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2398 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16)	DyLight®800	
Rabbit Anti Rat IgG (STAR17)	<u>FITC</u>	
Goat Anti Rat IgG (STAR72)	HRP	
Goat Anti Rat IgG (STAR69)	<u>FITC</u>	
Goat Anti Rat IgG (STAR73)	RPE	
Rabbit Anti Rat IgG (STAR21)	HRP	
Goat Anti Rat IgG (MOUSE ADSORBED) (S	TAR71) <u>DyLight®550</u> , <u>DyLight®650</u> , <u>DyLight®800</u>	
Goat Anti Rat IgG (STAR131)	<u>Alk. Phos., Biotin</u>	
Recommended Negative Controls		
RAT IgG2a NEGATIVE CONTROL (MCA1212)		
North & South Tel: +1 800 265 7376 Worldwide America Fax: +1 919 878 3751	Tel: +44 (0)1865 852 700 Europe Tel: +49 (0) 89 8090 95 21 Fax: +44 (0)1865 852 739 Fax: +49 (0) 89 8090 95 50	

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