

Datasheet: MCA485G

BATCH NUMBER 1804

Specificity:HLA ABCFormat:PurifiedProduct Type:Monoclonal AntibodyClone:YTH862.2Isotype:IgG2bQuantity:0.2 mg	Description:	RAT ANTI HUMAN HLA ABC	
Product Type: Monoclonal Antibody Clone: YTH862.2 Isotype: IgG2b	Specificity:	HLA ABC	
Clone: YTH862.2 Isotype: IgG2b	Format:	Purified	
Isotype: IgG2b	Product Type:	Monoclonal Antibody	
	Clone:	YTH862.2	
Quantity: 0.2 mg	Isotype:	lgG2b	
	Quantity:	0.2 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	•			1/50 - 1/100
Immunohistology - Frozen	•			
Immunohistology - Paraffin				
ELISA				
Immunoprecipitation	•			
Western Blotting				
Immunofluorescence	•			
Functional Assays (1)	•			

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

(1)This product contains sodium azide, removal by dialysis is recommended prior to use in functional assays. Dialysis cassettes <u>EQU003</u> are suitable for this purpose.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G 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	PHA activated human peripheral blood lymphocytes.
RRID	AB_567133
Fusion Partners	Spleen cells from immunised DA rats were fused with cells of the rat Y3 myeloma cell line.
Specificity	Rat anti Human HLA ABC antibody, clone YTH862.2 recognizes a monomorphic determinant on the human HLA Class I heavy chain. Epitope analysis has shown that this antibody binds in the alpha1 domain.
	The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In humans, this complex is referred to as the human leukocyte antigen (HLA) region. There are 3 major MHC class I proteins encoded by the HLA which are HLA A, HLA B and HLA C. These proteins are found on the surface of almost all nucleated somatic cells.
	Rat anti Human HLA ABC antibody, clone YTH862.2 may be able to induce apoptosis in activated but not resting T cells (<u>Genestier <i>et al.</i> 1997</u>).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	 Genestier, L. <i>et al.</i> (1997) Fas-independent apoptosis of activated T cells induced by antibodies to the HLA class I alpha1 domain. <u>Blood. 90 (9): 3629-39.</u> Genestier, L. <i>et al.</i> (1997) Antibodies to HLA class I alpha1 domain trigger apoptosis of CD40-activated human B lymphocytes. <u>Blood. 90 (2): 726-35.</u> Genestier, L. <i>et al.</i> (1998) Caspase-dependent ceramide production in Fas- and HLA class I-mediated peripheral T cell apoptosis. <u>J Biol Chem. 273 (9): 5060-6.</u> Liu, S. <i>et al.</i> (2005) Cross-talk between Schwann cells and neuroblasts influences the biology of neuroblastoma xenografts. <u>Am J Pathol. 166 (3): 891-900.</u> Schmidt, J. <i>et al.</i> (2008) Interrelation of inflammation and APP in sIBM: IL-1 beta induces accumulation of beta-amyloid in skeletal muscle. <u>Brain. 131 (Pt 5): 1228-40.</u> Muth, I.E. <i>et al.</i> (2009) Proinflammatory cell stress in sporadic inclusion body myositis muscle: overexpression of alphaB-crystallin is associated with amyloid precursor protein and accumulation of beta-amyloid. <u>J Neurol Neurosurg Psychiatry. 80: 1344-9.</u> Schmidt, J. <i>et al.</i> (2004) Upregulated inducible co-stimulator (ICOS) and ICOS-ligand in inclusion body myositis muscle: significance for CD8+ T cell cytotoxicity. <u>Brain. 127: 1182-90.</u> Schmidt, K. <i>et al.</i> (2016) Molecular treatment effects of alemtuzumab in skeletal muscles of patients with IBM. <u>BMC Neurol. 16 (1): 48.</u> Muth, I.E. <i>et al.</i> (2015) HMGB1 and RAGE in skeletal muscle inflammation: Implications

for protein accumulation in inclusion body myositis. Exp Neurol. 271: 189-97.

10. Schmidt, C.M. *et al.* (1997) Cytotoxic T lymphocyte recognition of HLA-G in mice. <u>Hum Immunol. 55 (2): 127-39.</u>

11. Tanaka, J. *et al.* (2004) Cytolytic activity and regulatory functions of inhibitory NK cell receptor-expressing T cells expanded from granulocyte colony-stimulating factor-mobilized peripheral blood mononuclear cells. <u>Blood. 104 (3): 768-74.</u>

12. Limozin, L. *et al.* (2016) A Rough Energy Landscape to Describe Surface-Linked Antibody and Antigen Bond Formation. Sci Rep. 6: 35193.

Storage

Store at +4°C for one month or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...) <u>DyLight®800</u>

Rabbit Anti Rat IgG (STAR17...)

Goat Anti Rat IgG (STAR72...)

Goat Anti Rat IgG (STAR69...)

Goat Anti Rat IgG (STAR73...)

RPE

Rabbit Anti Rat IgG (STAR21...)

Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) <u>DyLight®550</u>, <u>DyLight®650</u>, <u>DyLight®800</u>

Goat Anti Rat IgG (STAR131...) Alk. Phos., Biotin

Recommended Negative Controls

RAT IgG2b NEGATIVE CONTROL (MCA6006GA)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739

 Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

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 'M368048:200529'

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