

## Datasheet: MCA1305GA

**BATCH NUMBER 154376**

<b>Description:</b>	MOUSE ANTI HUMAN CD57
<b>Specificity:</b>	CD57
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	TB01
<b>Isotype:</b>	IgM
<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	▪			1/50 - 1/100
Immunohistology - Frozen	▪			1/10 - 1/100
Immunohistology - Paraffin	▪			1/10 - 1/50
ELISA			▪	
Immunoprecipitation		▪		
Western Blotting		▪		

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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgM - liquid
<b>Preparation</b>	Purified IgM prepared by ion exchange chromatography
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Approx. Protein Concentrations</b>	IgM concentration 1mg/ml

<b>Immunogen</b>	Human neuroblastoma cells.
<b>RRID</b>	AB_2063195
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse P3.X63 Ag8.653 myeloma cell line.
<b>Specificity</b>	<b>Mouse anti Human CD57 antibody, clone TB01</b> recognizes CD57, also known as HNK-1, an oligosaccharide antigenic determinant present on a variety of polypeptides, lipids and chondroitin sulphate proteoglycans. Its function is poorly understood. CD57 is present on a subset of NK and T cells.
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>Immunohistology</b>	*This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections but sodium citrate buffer may enhance staining.
<b>Histology Positive Control Tissue</b>	Human tonsil
<b>References</b>	<ol style="list-style-type: none"> <li>1. Funaro, A. <i>et al.</i> (1995) Epitope analysis of human CD57 by means of a panel of newly-generated high-affinity murine monoclonal antibodies. In: Leucocyte Typing V: White Cell Differentiation Antigens.</li> <li>2. Funaro, A. <i>et al.</i> (1995) Human CD57, a link molecule between leucocyte and neural cells. In: Leucocyte Typing V: White Cell Differentiation Antigens.</li> <li>3. Slyker, J.A. <i>et al.</i> (2011) Phenotypic Characterization of HIV-Specific CD8 T Cells during Early and Chronic Infant HIV-1 Infection. <a href="#">PLoS One. 6: e20375.</a></li> <li>4. Nunes, C. <i>et al.</i> (2012) Expansion of a CD8+PD-1+ Replicative Senescence Phenotype in Early Stage CLL Patients Is Associated with Inverted CD4:CD8 Ratios and Disease Progression. <a href="#">Clin Cancer Res. 18: 678-87.</a></li> <li>5. Hutnick, N.A. <i>et al.</i> (2010) Vaccination with Ad5 Vectors Expands Ad5-Specific CD8+ T Cells without Altering Memory Phenotype or Functionality <a href="#">PLoS One. 5: e14385.</a></li> <li>6. Khan, N. <i>et al.</i> (2002) Cytomegalovirus seropositivity drives the CD8 T cell repertoire toward greater clonality in healthy elderly individuals. <a href="#">J Immunol. 169: 1984-92.</a></li> <li>7. Alejef, A. <i>et al.</i> (2014) Cytomegalovirus drives Vδ2neg &amp;gammaδ T cell inflation in many healthy virus carriers with increasing age. <a href="#">Clin Exp Immunol. 176 (3): 418-28.</a></li> <li>8. Frahm, M. <i>et al.</i> (2012) CD4+CD8+ T cells represent a significant portion of the anti-HIV T cell response to acute HIV infection. <a href="#">J Immunol. 188: 4289-96.</a></li> <li>9. Wang, Y. <i>et al.</i> (2009) Characteristics of expanded CD4+CD28null T cells in patients with chronic hepatitis B. <a href="#">Immunol Invest. 38: 434-46.</a></li> <li>10. Lim, H.W. and Kim, C.H. (2007) Loss of IL-7 receptor alpha on CD4+ T cells defines terminally differentiated B cell-helping effector T cells in a B cell-rich lymphoid tissue. <a href="#">J Immunol. 179: 7448-56.</a></li> <li>11. Björkström, N.K. <i>et al.</i> (2012) CD8 T cells express randomly selected KIRs with distinct specificities compared with NK cells. <a href="#">Blood. 120: 3455-65.</a></li> <li>12. Slyker, J.A. <i>et al.</i> (2012) The impact of HIV-1 infection and exposure on natural killer (NK) cell phenotype in Kenyan infants during the first year of life. <a href="#">Front Immunol. 3: 399.</a></li> <li>13. Perlingeiro Beltrame, M. <i>et al.</i> (2014) Immune reconstitution in patients with Fanconi</li> </ol>

anemia after allogeneic bone marrow transplantation. [Cytotherapy. 16: 976-89.](#)  
14. Suárez, G.M. *et al.* (2021) Associations among cytokines, EGF and lymphocyte subpopulations in patients diagnosed with advanced lung cancer. [Cancer Immunol Immunother. Jan 02 \[Epub ahead of print\].](#)

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**Storage** Store at +4°C 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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1305GA>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgM (STAR138...) [Alk. Phos.](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)

### Recommended Negative Controls

[MOUSE IgM NEGATIVE CONTROL \(MCA692\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

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