

Datasheet: MCA1305GA

BATCH NUMBER 148132

Description:	MOUSE ANTI HUMAN CD57
Specificity:	CD57
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	TB01
Isotype:	IgM
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	▪			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.

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

Immunogen	Human neuroblastoma cells.
RRID	AB_2063195
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse P3.X63 Ag8.653 myeloma cell line.
Specificity	Mouse anti Human CD57 antibody, clone TB01 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.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
Immunohistology	*This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections but sodium citrate buffer may enhance staining.
Histology Positive Control Tissue	Human tonsil
References	<ol style="list-style-type: none"> 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. 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. 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. PLoS One. 6: e20375. 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. Clin Cancer Res. 18: 678-87. 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 PLoS One. 5: e14385. 6. Khan, N. <i>et al.</i> (2002) Cytomegalovirus seropositivity drives the CD8 T cell repertoire toward greater clonality in healthy elderly individuals. J Immunol. 169: 1984-92. 7. Alejef, A. <i>et al.</i> (2014) Cytomegalovirus drives Vδ2neg &gammaδ T cell inflation in many healthy virus carriers with increasing age. Clin Exp Immunol. 176 (3): 418-28. 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. J Immunol. 188: 4289-96. 9. Wang, Y. <i>et al.</i> (2009) Characteristics of expanded CD4+CD28null T cells in patients with chronic hepatitis B. Immunol Invest. 38: 434-46. 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. J Immunol. 179: 7448-56. 11. Björkström, N.K. <i>et al.</i> (2012) CD8 T cells express randomly selected KIRs with distinct specificities compared with NK cells. Blood. 120: 3455-65. 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. Front Immunol. 3: 399. 13. Perlingeiro Beltrame, M. <i>et al.</i> (2014) Immune reconstitution in patients with Fanconi

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 \[Epub ahead of print\].](#)

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.

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/MCA1305GA>
10040

Regulatory For research purposes only

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 \(MCA692\)](#)

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