

Datasheet: MCA1314

MOUSE ANTI HUMAN CD60	
CD60	
Purified	
Monoclonal Antibody	
M-T6004	
IgM	
2 ml	

Product Details

RRID AB_321514

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	-			Neat
Immunohistology - Frozen	-			
Immunohistology - Paraffin			•	
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
Species Cross Reactivity	Reacts with: Rainbow Trout N.B. Antibody reactivity and working conditions may vary between specie
Product Form	Purified IgM - liquid
Preparation	Purified IgM prepared by gel filtration from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide1% Bovine Serum Albumin
Approx. Protein Concentrations	IgM concentration 100ug/ml

Immunogen Purified CD60 antigen from PBL; 9-O-acetyl-GD3 from buttermilk **Fusion Partners** Spleen cells from immunized BALB/c mice were fused with cells of the P3. X63.Ag.8653 mouse myeloma cell line. **Specificity** Mouse anti Human CD60 antibody, clone M-T6004 recognizes the human CD60 antigen, a carbohydrate structure GD3 (Neu5Acα8Neu5Acα3Galβ4GlcCer) modified by a terminal 9-0-acetylated disialosyl group (9-0-acetyl GD3). Mouse anti human CD60 antibody clone M-T6004 does not recognize 7-O-acetyl GD3 or non-acetylated GD3. CD60 has been divided into 3 sub-types depending on the acetylation present. Non acetylated GD3 is termed CD60a and 7-O-acetyl GD3 termed CD60c. 9-O-acetyl GD3 as recognized by clone M-T6004 has been designated CD60b. CD60b is present on CD8+ve helper T cells (Rieber and Rank 1994), CD4+ve memory T cells and on activated B cells (Vater et al. 1997). Expression has also been reported on neuroectodermal cells (Carr et al. 1995) and in breast carcinomas (Gocht et al. 1998). CD60b is not expressed by naive T cells (Wada et al. 1998). GD3 has been described as a pro-apoptotic messenger targeting mitochondria in many lymphoid and myeloid cell types (García-Ruiz et al. 2000). Acetylation abrogates the pro-apoptotic activity of GD3 (Malisan et al. 2002) and CD60b protects tumor cells from apoptosis (Kniep et al. 2006). Use 10ul of the suggested working dilution to label 10^6 cells in 100ul. Flow Cytometry References 1. Rieber, E.P. & Rank, G. (1994) CDw60: a marker for human CD8+ T helper cells. J Exp Med. 179 (4): 1385-90. 2. Saalmuller, A. et al. (2007) Summary of the animal homologue section of HLDA8. Vet Immunol Immunopathol. 119: 2-13. 3. Malisan, F. et al. (2002) Acetylation suppresses the proapoptotic activity of GD3 ganglioside. J Exp Med. 196: 1535-41. 4. Kniep, B. et al. (2006) 9-O-acetyl GD3 protects tumor cells from apoptosis. Int J Cancer. 119: 67-73. 5. Erdmann, M. et al. (2006) Differential surface expression and possible function of 9-O- and 7-O-acetylated GD3 (CD60 b and c) during activation and apoptosis of human tonsillar B and T lymphocytes. Glycoconj J. 23: 627-38. 6. Fischer, U. and Koellner, B. (2007) Cross-reactivity of human leukocyte differentiation antigen monoclonal antibodies on carp and rainbow trout cells. Vet Immunol Immunopathol. 119: 142-55. 7. Mukherjee, K. et al. (2008) O-acetylation of GD3 prevents its apoptotic effect and promotes

- survival of lymphoblasts in childhood acute lymphoblastic leukaemia J Cell Biochem. 105: 724-34.
- 8. Schauer, R. et al. (2011) O-Acetylated sialic acids and their role in immune defense. Adv Exp Med Biol. 705: 525-48.
- 9. Belov, L. et al. (2017) Surface Profiling of Extracellular Vesicles from Plasma or Ascites Fluid Using DotScan Antibody Microarrays. Methods Mol Biol. 1619: 263-301.

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.

Shelf Life

18 months from date of despatch.

Health And SafetyMaterial Safety Datasheet documentation #10041 available at:Information10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP

Goat Anti Mouse IgM (STAR138...) Alk. Phos.

Goat Anti Mouse IgM (STAR86...) RPE
Human Anti Mouse IgM (HCA040...) FITC

Recommended Negative Controls

MOUSE IgM NEGATIVE CONTROL (MCA692)

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