

Datasheet: MCA216

Description:	MOUSE ANTI HUMAN CD66b
Specificity:	CD66b
Other names:	BILIARY GLYCOPROTEIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	80H3
Isotype:	IgG1
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 (1)	■			1/25 - 1/100
Immunohistology - Paraffin		■		
ELISA			■	
Immunoprecipitation			■	
Western Blotting (2)	■			
Functional Assays (3)	■			

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) **The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.**

(2) See [Feuk-Lagerstedt et al.](#)

(3) **This product contains sodium azide, removal by dialysis is recommended prior to use in functional assays. Dialysis cassettes [EQU003](#) are suitable for this purpose.**

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from ascites
Buffer Solution	Phosphate buffered saline.
Preservative	0.09% Sodium Azide (NaN ₃)
Stabilisers	0.5% Bovine Serum Albumin

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Human leucocytes from individuals with CML.
External Database Links	UniProt: P31997 Related reagents Entrez Gene: 1088 CEACAM8 Related reagents
Synonyms	CGM6
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse MOPC 315-43 myeloma cell line.
Specificity	Mouse anti Human CD66b antibody, clone 80H3 reacts with the CEACAM8 or CGM6 gene product, from the carcinoembryonic gene family. The CEACAM8 gene product is called CD66b, Non-specific cross-reacting antigen NCA-95 or Carcinoembryonic antigen CGM6. CD66b is a 286 amino acid mature ~95-100 kDa GPI anchored molecule with an N-terminal 34 amino acid signal peptide and a 29 amino acid C-terminal propeptide, shed in the mature form. CD66b is expressed strongly by mature granulocytes and metamyelocytes, and weakly by bone marrow myelocytes. CD66b is not expressed by peripheral blood monocytes or lymphocytes.
Flow Cytometry	Use 10ul of the suggested working dilution to label 5×10^5 cells or 100ul whole blood.
Histology Positive Control Tissue	Bone Marrow
References	- Mannoni, P. <i>et al.</i> (1982) Monoclonal antibodies against human granulocytes and myeloid differentiation antigens. Hum Immunol. 5 (4): 309-23. - Ionita, M.G. <i>et al.</i> (2010) High neutrophil numbers in human carotid atherosclerotic plaques are associated with characteristics of rupture-prone lesions. Arterioscler Thromb Vasc Biol. 30 (9): 1842-8. - Simard, J.C. <i>et al.</i> (2010) Induction of neutrophil degranulation by S100A9 via a MAPK-dependent mechanism. J Leukoc Biol. 87 (5): 905-14. - Feuk-Lagerstedt, E. <i>et al.</i> (1999) Identification of CD66a and CD66b as the major galectin-3 receptor candidates in human neutrophils. J Immunol. 163: 5592-8. - Jankowski, A. <i>et al.</i> (2002) Determinants of the phagosomal pH in neutrophils. J Biol Chem. 277: 6059-66. - Jinnouchi, A. <i>et al.</i> (2005) Local anesthetics inhibit priming of neutrophils by lipopolysaccharide for enhanced release of superoxide: suppression of cytochrome b558 expression by disparate mechanisms. J Leukoc Biol. 78: 1356-65. - Thickett, D.R. <i>et al.</i> (2002) A role for vascular endothelial growth factor in acute and resolving lung injury. Am J Respir Crit Care Med. 166: 1332-7. - Sekine, K. <i>et al.</i> (2006) Panning of multiple subsets of leukocytes on antibody-decorated poly(ethylene) glycol-coated glass slides. J Immunol Methods. 313: 96-109. - Ottonello, L. <i>et al.</i> (1999) Monoclonal Lym-1 antibody-dependent cytotoxicity by neutrophils exposed to granulocyte-macrophage colony-stimulating factor: intervention of FcγRII (CD32), CD11b-CD18 integrins, and CD66b glycoproteins. Blood. 93: 3505-11. - Ottonello, L. <i>et al.</i> (2000) Monoclonal Lym-1 antibody-targeted lysis of B lymphoma cells by neutrophils. Evidence for two mechanisms of FcγRII-dependent cytotoxicity. J Leukoc Biol. 68:

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18. Orozco-Urbe, M. *et al.* (2015) Early Exposure of Human Neutrophils to Mycobacteria Triggers Cell Damage and Pro-Inhibitory Molecules, but not Activation In: [Tuberculosis - Expanding Knowledge. Book edited by Wellman Ribon ISBN 978-953-51-2139-8](#)
19. Whitmore, L.C. *et al.* (2016) A Common Genetic Variant in TLR1 Enhances Human Neutrophil Priming and Impacts Length of Intensive Care Stay in Pediatric Sepsis. [J Immunol. 196 \(3\): 1376-86.](#)
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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.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10338 available at:
10338: <https://www.bio-rad-antibodies.com/uploads/MSDS/10338.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)

[RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...)

[Alk. Phos.](#), [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...)

[Alk. Phos.](#), [DyLight®488](#), [DyLight®549](#),
[DyLight®649](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-rad.com		Email: antibody_sales_de@bio-rad.com

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