

## Datasheet: MCA216T

**BATCH NUMBER 180326**

<b>Description:</b>	MOUSE ANTI HUMAN CD66b
<b>Specificity:</b>	CD66b
<b>Other names:</b>	BILIARY GLYCOPROTEIN, CARCINOEMBRYONIC ANTIGEN RELATED CELL ADHESION MOLECULE 8
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	80H3
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	20 µg

## 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)	▪			1/25 - 1/100
Immunohistology - Paraffin		▪		

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.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline

<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	0.5% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Human leucocytes from individuals with CML.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P31997</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">1088</a>    CEACAM8    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	CGM6
<b>RRID</b>	AB_2291565
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse MOPC 315-43 myeloma cell line.
<b>Specificity</b>	<b>Mouse anti Human CD66b antibody, clone 80H3</b> 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.
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 5 x 10 <sup>5</sup> cells or 100ul whole blood.
<b>Histology Positive Control Tissue</b>	Bone Marrow
<b>References</b>	<ol style="list-style-type: none"> <li>Mannoni, P. <i>et al.</i> (1982) Monoclonal antibodies against human granulocytes and myeloid differentiation antigens. <a href="#">Hum Immunol. 5 (4): 309-23.</a></li> <li>Ionita, M.G. <i>et al.</i> (2010) High neutrophil numbers in human carotid atherosclerotic plaques are associated with characteristics of rupture-prone lesions. <a href="#">Arterioscler Thromb Vasc Biol. 30 (9): 1842-8.</a></li> <li>Simard, J.C. <i>et al.</i> (2010) Induction of neutrophil degranulation by S100A9 via a MAPK-dependent mechanism. <a href="#">J Leukoc Biol. 87 (5): 905-14.</a></li> <li>Feuk-Lagerstedt, E. <i>et al.</i> (1999) Identification of CD66a and CD66b as the major galectin-3 receptor candidates in human neutrophils. <a href="#">J Immunol. 163: 5592-8.</a></li> <li>Jankowski, A. <i>et al.</i> (2002) Determinants of the phagosomal pH in neutrophils. <a href="#">J Biol Chem. 277: 6059-66.</a></li> <li>Jinnouchi, A. <i>et al.</i> (2005) Local anesthetics inhibit priming of neutrophils by lipopolysaccharide for enhanced release of superoxide: suppression of cytochrome b558</li> </ol>

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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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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA216T10041">https://www.bio-rad-antibodies.com/SDS/MCA216T10041</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>

### Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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