

## Datasheet: MCA1147G

**BATCH NUMBER 168365**

<b>Description:</b>	RAT ANTI HUMAN CD66acd
<b>Specificity:</b>	CD66acd
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	YTH71.3
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
Immunohistology - Frozen	▪			
Immunohistology - Paraffin	▪			10 ug/ml

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in his/her own system using appropriate negative/positive controls.

#### Target Species

Human

#### Species Cross Reactivity

Reacts with: Rhesus Monkey

Does not react with: Mouse

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

#### Product Form

Purified IgG - liquid

#### Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

#### Buffer Solution

Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.09% sodium azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Human lymphocytes
<b>External Database Links</b>	<p><b>UniProt:</b></p> <p><a href="#">P13688</a>    <a href="#">Related reagents</a></p> <p><a href="#">P40198</a>    <a href="#">Related reagents</a></p> <p><a href="#">P40199</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">634</a>    CEACAM1    <a href="#">Related reagents</a></p> <p><a href="#">1084</a>    CEACAM3    <a href="#">Related reagents</a></p> <p><a href="#">4680</a>    CEACAM6    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	BGP, BGP1, CD66D, CGM1, NCA
<b>RRID</b>	AB_323396
<b>Fusion Partners</b>	Spleen cells from immunised DA rats were fused with cells of the Y3/Ag1.2.3 myeloma cell line.
<b>Specificity</b>	<p><b>Rat anti Human CD66acd antibody, clone YTH71.3</b> recognizes 3 members of the human CD66 family, namely CD66a, also known as Carcinoembryonic antigen-related cell adhesion molecule 1, Biliary glycoprotein 1 or CEACAM1. Clone YTH71.3 also recognizes CD66c, known as Carcinoembryonic antigen-related cell adhesion molecule 6 or Non-specific crossreacting antigen. In addition the clone also recognizes CD66d which in turn is also known as Carcinoembryonic antigen-related cell adhesion molecule 3 or CGM1 (<a href="#">Watt et al. 1991</a>). CD66 family members are single pass, type 1 membrane glycoproteins bearing a single <a href="#">V-type Ig-like</a> domain and a varying number of <a href="#">C2-type Ig-like</a> domains. Clone YTH71.3 recognizes epitopes in the <a href="#">N-terminal domain</a> of these CD66 family members.</p> <p>CD66 members are expressed by human neutrophils and cells of the colon where it is down regulated in some cases of colon carcinoma (<a href="#">Neumaier et al. 2012</a>). CD66a is also expressed in the human alveolar adenocarcinoma cell line A549 and may play a role in <i>Moraxella catarrhalis</i> induced apoptosis of pulmonary epithelial cells in diseases including COPD and emphysema (<a href="#">N'Guessan et al. 2007</a>).</p>
<b>Flow Cytometry</b>	Use 10µl of the suggested working dilution to label 1 x 10 <sup>6</sup> cells in 100µl.
<b>References</b>	1. Jonker, M. <i>et al.</i> (1989) Reactivity of Mab specific for human CD markers with Rhesus

- monkey leucocytes. Leucocyte Typing IV p 1058-1063 Oxford University Press, Oxford.
2. Watt, S.M. *et al.* (1991) CD66 identifies a neutrophil-specific epitope within the haematopoietic system that is expressed by members of the carcinoembryonic family of adhesion molecules. [Blood 78: 63-74.](#)
  3. Skubitz, K.M. *et al.* (1993) In Leucocyte Typing V. White Cell Differentiation Antigen p. 889 - 899 Volume One. Oxford University Press, Oxford.
  4. Hill, D.J. and Virji, M. (2003) A novel cell-binding mechanism of *Moraxella catarrhalis* ubiquitous surface protein UspA: specific targeting of the N-domain of carcinoembryonic antigen-related cell adhesion molecules by UspA1. [Mol Microbiol. 48: 117-29.](#)
  5. Bradley, C.J. *et al.* (2005) Critical determinants of the interactions of capsule-expressing *Neisseria meningitidis* with host cells: the role of receptor density in increased cellular targeting via the outer membrane Opa proteins [Cell Microbiol. 7: 1490-503.](#)
  6. N'Guessan, P.D. *et al.* (2007) The UspA1 protein of *Moraxella catarrhalis* induces CEACAM-1-dependent apoptosis in alveolar epithelial cells. [J Infect Dis. 195: 1651-60.](#)

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**Storage** This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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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/MCA1147G>  
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**Regulatory** For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@800</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight@800</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>
Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>

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