

Datasheet: MCA1147G

Description:	RAT ANTI HUMAN CD66acd
Specificity:	CD66acd
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	YTH71.3
Isotype:	IgG2a
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	▪			
Immunohistology - Frozen	▪			
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. 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.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Human lymphocytes
External Database	UniProt:

Links	P13688	Related reagents
	P40198	Related reagents
	P40199	Related reagents

Entrez Gene:

634	CEACAM1	Related reagents
1084	CEACAM3	Related reagents
4680	CEACAM6	Related reagents

Synonyms BGP, BGP1, CD66D, CGM1, NCA

Fusion Partners Spleen cells from immunised DA rats were fused with cells of the Y3/Ag1.2.3 myeloma cell line.

Specificity **Rat anti Human CD66acd antibody, clone YTH71.3** 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 ([Watt et al. 1991](#)). CD66 family members are single pass, type 1 membrane glycoproteins bearing a single [V-type Ig-like](#) domain and a varying number of [C2-type Ig-like](#) domains. Clone YTH71.3 recognizes epitopes in the [N-terminal domain](#) of these CD66 family members.

CD66 members are expressed by human neutrophils and cells of the colon where it is down regulated in some cases of colon carcinoma ([Neumaier et al. 2012](#)). CD66a is also expressed in the human alveolar adenocarcinoma cell line A549 and may play a role in *Moraxella catarrhalis* induced apoptosis of pulmonary epithelial cells in diseases including COPD and emphysema ([N'Guessan et al. 2007](#)).

Flow Cytometry Use 10ul of the suggested working dilution to label 1 x 10⁶ cells in 100ul.

References

1. 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.](#)
2. Skubitz, K.M. *et al.* (1993) In Leucocyte Typing V. White Cell Differentiation Antigen p. 889 - 899 Volume One. Oxford University Press, Oxford.
3. Jonker, M. *et al.* (1989) Reactivity of Mab specific for human CD markers with Rhesus monkey leucocytes. Leucocyte Typing IV p 1058-1063 Oxford University Press, Oxford.
4. 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.](#)
5. 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.](#)
6. 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.](#)

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.
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®549 , DyLight®649 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

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