

## Datasheet: TZA080GA

<b>Description:</b>	MOUSE ANTI HUMAN CD66b
<b>Specificity:</b>	CD66b
<b>Other names:</b>	CEACAM8
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	rA10B10-04/4H2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 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	▪			

Where this product 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 product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified recombinant IgG containing a SpyTag at the C-terminus of the antibody heavy chain – liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Source</b>	CHO cells
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml

**Immunogen** Recombinant CD66b Gln35-Asp320 expressed by mammalian cells

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**External Database**

**Links**

**UniProt:**

[P31997](#) [Related reagents](#)

**Entrez Gene:**

[1088](#) CEACAM8 [Related reagents](#)

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**Synonyms**

CGM6

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**Specificity**

**Mouse anti Human CD66b antibody, clone rA10B10-04/4H2**, is a recombinant monoclonal antibody that recognizes CD66b, also known as cell adhesion molecule CEACAM8, CGM6 or NCA-95.

CD66b is a member of the carcinoembryonic antigen (CEA) family, which is involved in a range of cellular processes through homotypic and heterotypic interactions. CD66b consists of an N-terminal region homologous to the immunoglobulin variable domain, two domains homologous to the immunoglobulin constant domain and is linked to the membrane via a GPI anchor. CD66b is highly expressed in eosinophils and neutrophils, and weakly in bone myelocytes. CD66b is involved in cell adhesion in a calcium-independent manner, functioning with other cell adhesion molecules such as CD66c.

CD66b is expressed on leukocytes of chronic myeloid leukemia patients. The level of CD66b-positive neutrophils found within tumors of patients with resectable non-small cell lung cancer (NSCLC) has been found to correlate with the risk of disease recurrence. CD66b+ granulocytes were significantly higher in patients with severe COVID-19 compared to either asymptomatic or convalescent patients. CD66b crosslinking leads to the directed release of preformed IL-8 from neutrophils but does not induce do novo synthesis of cytokines. Cross-linking the CD66b with a specific mAb or a ligand, galectin-3, induces tight cellular adhesion, superoxide generation, and degranulation.

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**Flow Cytometry**

Use 5µl of the suggested working dilution to label 0.5x10<sup>6</sup> cells in 100µl. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.

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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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**Acknowledgements**

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**Health And Safety Information**      Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/TZA080GA>

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**Regulatory**                      For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

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

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
'M450773:260522'

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