

Datasheet: TZA080GA

BATCH NUMBER 64744246

| | |
|----------------------|------------------------|
| Description: | MOUSE ANTI HUMAN CD66b |
| Specificity: | CD66b |
| Other names: | CD66, CEACAM8 |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | rA10B10-04/4H2 |
| Isotype: | IgG1 |
| Quantity: | 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.

| | 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.

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

Concentrations

Immunogen Recombinant CD66b Gln35-Asp320 expressed by mammalian cells

External Database Links

UniProt:

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

Entrez Gene:

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

Synonyms CGM6

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.

Flow Cytometry Use 5µl of the suggested working dilution to label 0.5×10^6 cells in 100µl. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.

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.

Guarantee 12 months from date of despatch

Acknowledgements This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See

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

Regulatory For research purposes only

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 (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](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Recommended Negative Controls

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

Product inquiries: 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
'M450773:260522'

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