

Datasheet: TZA079GA

Description:	MOUSE ANTI HUMAN CD66
Specificity:	CD66
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	rB08-7A10
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 Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant CD66a Gln35-Gly428 expressed by mammalian cells

External Database**Links****UniProt:**

[P13688](#) [Related reagents](#)
[P40198](#) [Related reagents](#)
[P06731](#) [Related reagents](#)
[P40199](#) [Related reagents](#)

Entrez Gene:

[634](#) CEACAM1 [Related reagents](#)
[1084](#) CEACAM3 [Related reagents](#)
[1048](#) CEACAM5 [Related reagents](#)
[4680](#) CEACAM6 [Related reagents](#)

Synonyms

BGP, BGP1, CD66D, CEA, CGM1, NCA

Specificity

Mouse anti Human CD66 antibody, clone rB08-7A10, is a recombinant monoclonal antibody that recognizes an epitope common to CD66 a, c, d and e, also known respectively as cell adhesion molecule CEACAM 1, 6, 3 and 5.

CD66 a, c, d and e are members of the carcinoembryonic antigen (CEA) family, which is involved in a range of cellular processes through homotypic and heterotypic interactions. CD66 a, c, d and e all have an extracellular region containing at least one domain homologous to the immunoglobulin variable domain. CD66 a and d are transmembrane proteins, whilst CD66 c and e associate to the cell membrane with GPI anchors. CD66 proteins each have a specific expression pattern. CD66a is broadly expressed and the only family member expressed on activated T cells. CD66a has been attributed to multiple cellular functions, including the modulation of adaptive and innate immune responses, roles in apoptosis, angiogenesis, and involvement in the development of 3D tissue structure. The binding of CD66a by viral and bacterial adhesins can inhibit the function of immune cells, providing a route for pathogens to potentially suppress immune response to infection.

CD66 proteins are associated with immune related diseases and are considered clinical biomarkers and promising therapeutic targets for various types of cancer. CD66a is involved in inflammatory bowel disease, with a protective role in models of colitis. CD66a is a biomarker in non-small cell lung cancer, pancreatic adenocarcinoma and melanoma. CD66e is approved by the FDA as a diagnostic marker for colon cancer.

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 bio-rad.com/en-us/trademarks for details.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/TZA079GA
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
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
Rabbit Anti Mouse IgG (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

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](https://www.bio-rad-antibodies.com/datasheets)
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Printed on 09 Jan 2026