

Datasheet: TZA079SBV610

Description:	MOUSE ANTI HUMAN CD66:StarBright Violet 610
Specificity:	CD66
Format:	StarBright Violet 610
Product Type:	Monoclonal Antibody
Clone:	rB08-7A10
Isotype:	IgG1
Quantity:	100 TESTS/0.5ml

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 (1)	▪			Neat

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.

(1) Staining at lower temperatures generally requires longer incubation to reach antibody binding equilibrium, and this effect is more pronounced for StarBright Dyes due to their larger size. For optimum staining, Bio-Rad recommends incubating samples either overnight at 4°C or 1 hour at room temperature.

Target Species	Human		
Product Form	Purified recombinant IgG containing a SpyTag at the C-terminus of the antibody heavy chain and conjugated to StarBright Violet 610 – liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	StarBright Violet 610	403	607
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
Source	CHO cells		
Buffer Solution	Phosphate buffered saline		

Preservative	0.09% Sodium Azide (NaN ₃)
Stabilisers	1% Bovine Serum Albumin 0.1% Pluronic F68 0.1% PEG 3350 0.05% Tween 20
Approx. Protein Concentrations	For information on the concentration of our StarBright Dye conjugated reagents please visit our FAQ page.
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	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
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. This product is covered by U.S Patent No. 10,150,841 and related U.S and foreign counterparts.
Health And Safety Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/TZA079SBV610
Regulatory	For research purposes only

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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