

Datasheet: TZA093SBB580

Description:	MOUSE ANTI HUMAN CD186:StarBright Blue 580
Specificity:	CD186
Other names:	CXCR6
Format:	StarBright Blue 580
Product Type:	Monoclonal Antibody
Clone:	rD02-7B3
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 Blue 580 – liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	StarBright Blue 580	475	582
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) 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	Mammalian cells transfected with full length CD186
External Database Links	UniProt: O00574 Related reagents Entrez Gene: 10663 CXCR6 Related reagents
Synonyms	BONZO, STRL33, TYMSTR
Specificity	Mouse anti Human CD186 antibody, clone rD02-7B3, is a recombinant monoclonal antibody that recognizes CD186, also known as C-X-C chemokine receptor type 6 (CXCR6), Bonzo or STRL33. CD186 is a 39kDa G protein-coupled chemokine receptor which is expressed on CD4+ T cells, NK cells and plasma cells, as well as lymphoid tissues. It is expressed at a very low level on naïve CD8+ T cells, with expression upregulated after activation. Through interactions with its ligand CXCL16, CD186 is involved in chemotaxis, aiding in immune responses by recruiting cells to sites of inflammation. CD186 acts as a co-receptor for m-tropic HIV-1 and SIVs in conjunction with CD4. Dysfunction or altered expression of CD186 has been linked to several autoimmune and inflammatory diseases. In rheumatoid arthritis, elevated expression is found in T cells found in synovial fluid, where it is implicated in disease pathogenesis by inducing T-lymphocyte homing to the joints and Th1 polarization. Expression is also upregulated on T cells in the colons of patients with Crohn's disease. CD8+ T cell trafficking to the skin in vitiligo patients is mediated by CD186-CXCL16 interactions.
Flow Cytometry	Use 5µl of the suggested working dilution to label 0.5x10 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/TZA093SBB580
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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