

Datasheet: TZA093SBB615

Description:	MOUSE ANTI HUMAN CD186:StarBright Blue 615
Specificity:	CD186
Other names:	CXCR6
Format:	StarBright Blue 615
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	▪			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.

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 615 – liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	StarBright Blue 615	475	612
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 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 0.5x10⁶ 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/TZA093SBB615
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Regulatory	For research purposes only
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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

'M446684:260109'

Printed on 10 Feb 2026

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