

Datasheet: TZA093GA

BATCH NUMBER 64684038

Description:	MOUSE ANTI HUMAN CD186
Specificity:	CD186
Other names:	CXCR6
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	rD02-7B3
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 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 0.5×10^6 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:

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 (STAR12...)	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

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
'M446729:260109'

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