

Datasheet: TZA0165GA

Description:	MOUSE ANTI HUMAN CD46
Specificity:	CD46
Other names:	MCP
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	rA44B44-08/4D7
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 CD46 Cys35-Asp343 expressed by mammalian cells

External Database

Links

UniProt:

[P15529](#)

[Related reagents](#)

Entrez Gene:

[4179](#)

CD46

[Related reagents](#)

Synonyms

MCP, MIC10

Specificity

Mouse anti Human CD46, clone rA44B44-08/4D7, is a recombinant monoclonal antibody that recognizes CD46, also known as membrane cofactor protein (MCP), Trophoblast leukocyte common antigen or TLX.

CD46 is a single-pass type I transmembrane protein expressed by almost all nucleated cells. Four major isoforms exist, each of which has an amino terminus containing four complement control protein modules and an alternatively spliced O-glycosylated domain. The cytoplasmic region consists of an anchor region and an alternatively spliced cytoplasmic tail containing a distinct signaling motif. CD46 has a role in regulating complement activation by binding C3b and C4b after deposition on a host cell, facilitating cleavage. The CD46 C2 isoform is exclusively expressed on the inner acrosomal membrane of human spermatozoa, where it serves a role in fertilization. CD46 is also involved in T cell activation, autophagy and the intracellular complement system.

CD46 is often dysregulated in cancer, for example in multiple myeloma and various solid tumors. It has been reported as a potential tumor target and prognostic indicator. CD46 is a receptor or adherence factor for a number of pathogens, including the measles virus.

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/TZA0165GA>

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 (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
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
'M485700:260902'

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