

Datasheet: TZA0165GA

BATCH NUMBER 64759444

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	IgG concentration 1.0 mg/ml

Concentrations

Immunogen	Recombinant CD46 Cys35-Asp343 expressed by mammalian cells
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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>

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 (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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