BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

# Anti-CD46 (Membrane Cofactor Protein) Monoclonal Antibody

**Catalog Number:** M00377

## About CD46

CD46 acts as a cofactor for complement factor I, a serine protease, which protects autologous cells against complement-mediated injury by cleaving C3b and C4b deposited on host tissue. It may be involved in the fusion of the spermatozoa with the oocyte during fertilization. CD46 acts as a co-stimulatory factor for T-cells, which induces the differentiation of CD4+ into T-regulatory 1 cells. T-regulatory 1 cells suppress immune responses by secreting interleukin-10, and therefore are thought to prevent autoimmunity. A number of viral and bacterial pathogens seem to exploit this property and directly induce an immunosuppressive phenotype in T-cells by binding to CD46.

## Overview

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| Product Name | Anti-CD46 (Membrane Cofactor Protein) Monoclonal Antibody |
| Reactive Species | Human |
| Description | Boster Bio Anti-CD46 (Membrane Cofactor Protein) Monoclonal Antibody (Catalog # M00377). Tested in Functional Assay, Flow Cytometry, IF applications. This antibody reacts with Human. |
| Conjugate | Biotin |
| Application | Flow Cytometry, IF, Functional Assay |
| Clonality | Monoclonal Clone: 122.2 |
| Formulation | Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| Storage Instructions | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required. |
| Host | Mouse |
| Uniprot ID | P15529 |

## Technical Details

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| Immunogen | Recombinant human CD46 protein |
| Predicted Reactive Species | Bovine, Canine, Mouse, Orangutan, Pig, Rabbit, Rat, Deer |
| Isotype | IgG1, kappa |
| Form | Liquid |
| Concentration | Purified antibody with BSA and azide at 200ug/ml |
| Purification | 200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G. |

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| Suggested Dilutions | Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.<br>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.<br>Some PubMed article(s) citing the expression level of this target are as follows:<br>Boster Bio's internal QC testing used:<br>Functional Studies (Order Ab without Azide)<br>Flow Cytometry (1-2ug/million cells)<br>Immunofluorescence (1-2ug/ml)<br>Optimal dilution for a specific application should be determined. |

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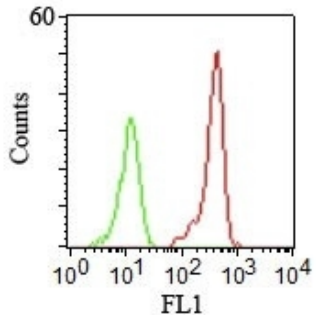
# Anti-CD46 (Membrane Cofactor Protein) Monoclonal Antibody (M00377) Images




FCM staining of human PBMCs using Anti-CD46 Mouse Monoclonal Antibody (122.2).