

# Monoclonal Antibody CD46

PN IM0846 – Purified – Freeze-dried – 0.2 mg – Clone J4.48

**For Research Use Only. Not for use in diagnostic procedures.**

## SPECIFICITY

The CD46 antigen is a 56-66 kDa non-disulfide-linked dimeric protein with O-linked glycosylation.

It is known as the Membrane Co-factor Protein (MCP), a cofactor which binds to C3b or C4b, allowing their degradation by a serine protease (factor I) of the plasma.

CD46 is the receptor for the measles virus hemagglutinin and Streptococcus A surface protein. CD46 antigen is expressed on thymocytes, T lymphocytes, B lymphocytes, monocytes, granulocytes, NK cells, platelets, endothelial cells, epithelial cells, fibroblasts, but not on erythrocytes.

The J4.48 monoclonal antibody has been assigned to the CD46 cluster of differentiation at the fourth International Workshop on Human Leucocyte Differentiation Antigens held in Vienna, Austria, in 1989 (1).

## REAGENT

Monoclonal Antibody CD46  
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<b>Clone</b>	J4.48
<b>Isotype</b>	IgG1, mouse
<b>Immunogen</b>	FKLY 18 B lymphoma cell line
<b>Hybridoma Source</b>	NS1 x Balb/c spleen cells Ascites fluid
<b>Purification</b>	Ion exchange or affinity chromatography
<b>Buffer</b>	1 mg/mL bovine serum albumin in phosphate-buffered saline

## APPLICATION

Studies of CD46 positive cells by flow cytometry.

## STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use antibody beyond the expiration date on the label.
4. Avoid microbial contamination of reagents or incorrect results might occur.
5. Use good laboratory practices when handling this reagent.

## STORAGE CONDITIONS AND STABILITY

This freeze-dried form may be stored at 2 – 8°C until the expiration date stated on the vial label.

No preservative has been added.

## REAGENT PREPARATION

Depending of usage, reconstitute with 1 mL of distilled water, with or without 0.1% sodium azide (w/v).

The reconstituted form including 0.1% sodium azide may be stored for up to one month at 2 – 8°C.

The reconstituted form without sodium azide can be stored at –20°C or less, until the expiration date stated on the vial label.

In this case, aliquotting is recommended to avoid multiple freezing / thawing cycles.

## PROCEDURE

For each application, it is recommended to establish the right range of antibody dilutions to be used for the experiment.

## SELECTED RESEARCH REFERENCES

1. Hadam, M.R., "Cluster report: CD46", 1989, Leucocyte Typing IV, Knapp, W., et al., Eds., Oxford University Press, 649-652.

## PRODUCT AVAILABILITY

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For additional information in the USA, call 800-526-7694.

Outside the USA, contact your local Beckman Coulter representative.

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