

Monoclonal Antibody CD58

PN IM0861 – Purified – Freeze-dried – 0.2 mg – Clone AICD58

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

SPECIFICITY

The CD58 is a glycoprotein of 65-70 kDa, either transmembrane or glycosylphosphatidylinositol (GPI)-anchored. CD58 was first described as the Leucocyte Function Associated molecule-3 (LFA-3). LFA-3 was further shown to interact with CD2 suggesting an important role in various immunological responses via T-cell adhesion and activation (1 - 3). CD58 mediates adhesion between killer and target cells, antigen presenting cells and T cells. This antigen is widely expressed on leucocytes, erythrocytes and endothelial cells.

The AICD58 monoclonal antibody (mAb) is a blocking antibody in LFA-3 mediated adhesion.

This antibody was used as a CD58 reference mAb during the HLDA 6.

The AICD58 mAb has been assigned to the CD58 cluster of differentiation at the fifth International Workshop on Human Leucocyte Differentiation Antigens held in Boston, USA, in 1993 (4).

REAGENT

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Clone	AICD58
Isotype	IgG2a, mouse
Immunogen	PHA blast
Hybridoma	P3-X63-Ag.8.653 x Balb/c
Source	Ascites fluid
Purification	Ion exchange or affinity chromatography
Buffer	1 mg/mL bovine serum albumin in phosphate-buffered saline

APPLICATION

Studies of CD58 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. Peterson, A., Seed, B., "Monoclonal antibody and ligand binding sites of the T cell erythrocyte receptor (CD2)", 1987, Nature, 329, 840-846.
2. Albert-Wolf, M., Meuer, S.C., and Wallich, R. "Dual function of recombinant human CD58: Inhibition of T-cell adhesion and activation via the CD2 pathway", 1991, International Immunology, 3, 1335-1347.
3. Dengler, T.J., Hoffmann, J.C., Knolle, P., Albert-Wolf, M., Roux, M., Wallich, R., and Meuer, S.C. "Structural and functional epitopes of the human adhesion receptor CD58 (LFA-3)", 1992, Eur.J. Immunol., 22, 2809-2817.
4. Klickstein, L.B., Springer, T.A., "CD58 cluster report", 1995, Leucocyte Typing V, White Cell Differentiation Antigens, Schlossman, et al., Eds., Oxford University Press, 1475-1476.

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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