

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

SPECIFICITY

CD58 is a glycoprotein of 65 – 70 kDa, either transmembrane or glycosylphosphatidylinositol-(GPI) anchored (1). CD58 was first described as lymphocyte-function associated antigen 3 (LFA-3) (2). LFA-3 was further shown to interact with CD2 (3) suggesting an important role in various immunological responses via T-cell adhesion and activation (4). The wide cellular expression of CD58 is summarized in Ref. 5.

The AICD58 monoclonal antibody has been assigned to the CD58 cluster of differentiation at the 5th International Workshop on Human Leucocyte Differentiation Antigens in Boston, U.S.A., in 1993 (6) and further used as reference antibody N° 28 during the 6th International Workshop on Human Leucocyte Differentiation Antigens in Kobe, Japan, in 1996 (5).

REAGENT

IOTest CD58-FITC Conjugated Antibody
PN IM1218U – 2 mL Liquid – 20 µL / test*.

Clone	AICD58
Isotype	IgG2a, mouse
Immunogen	PHA blasts
Hybridoma Source	X63-Ag8.653 x Balb/c Ascites fluid
Purification	Ion exchange or affinity chromatography
Conjugation	FITC (Fluorescein isothiocyanate) is conjugated at 6 – 9 moles of FITC per mole of Ig.
Fluorescence	FITC (Green) Excites at 468 – 509 nm Emits at 504 – 541 nm

REAGENT CONTENTS

This reagent is provided in phosphate-buffered saline, with 0.1% sodium azide (NaN₃) as preservative, and 2.0 mg / mL bovine serum albumin (BSA).

STATEMENT OF WARNINGS

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with

running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.

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

STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze. Minimize exposure to light.

EVIDENCE OF DETERIORATION

Any change in the physical appearance of this FITC-labeled reagent (clear, colorless to yellowish-green liquid) or any major variation in values obtained for control samples may indicate deterioration and the reagent should not be used.

REAGENT PREPARATION

No preparation is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

SELECTED RESEARCH REFERENCES

1. Klickstein, L.B., Springer, T.A., "Adhesion structure subpanel 1, E rosetting/GPI anchor : CD2, CD48, CD55, CD58, CD59, CD99, and CDw108", 1995, Leucocyte Typing V, White Cell Differentiation Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, 1468-1473.
2. Sanchez-Madrid, F., Krensky, A.M., Ware, C.F., Robbins, E., Strominger,

J.L., Burakoff, S.J., Springer, T.A., "Three distinct antigens associated with human T-lymphocyte-mediated cytolysis : LFA-1, LFA-2 and LFA-3", 1982, Proc. Natl. Acad. Sci. USA, 79, 7489-7493.

3. Seed, B., "An LFA-3 cDNA encodes a phospholipid-linked membrane protein homologous to its receptor CD2", 1987, Nature, 329, 840-843.
4. Albert-Wolf, M., Meuer, S.C., Wallich, R., "Dual function of recombinant human CD58 : inhibition of T cell adhesion and activation via the CD2 pathway", 1991, Int. Immunol., 12, 3, 1335-1347.
5. Takeuchi, E., Tanaka, T., Goda, K., Miyasaka, M., "CD58 Workshop Panel report", 1997, Leucocyte Typing VI, White Cell Differentiation Antigens. Kishimoto, T., et al., Eds., Garland Publishing, Inc., 414-415.
6. Klickstein, L.B., Springer, T.A., "CD58 cluster report", 1995, Leucocyte Typing V, White Cell Differentiation Antigens. Kishimoto, T., et al., Eds., Garland Publishing, Inc., 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.

www.beckmancoulter.com

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(*) : 20 µL is the quantity of product sufficient to stain

5 x 10⁵ cells in a standard immunofluorescence assay

