Monoclonal Antibody IOTest® CD58-PE

PN IM1430- 100 tests – Liquid - 20 µL/test - Clone AICD58

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

SPECIFICITY
CD58 is a glycoprotein of 65 – 70 kDa, either transmembrane or glycosylphosphatidyl-inositol-(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-PE Monoclonal Antibody
PN IM1430 - 100 tests - Liquid - 20µL/test

Clone	AICD58
Isotype	IgG2a, Mouse
Immunogen	PHA blast
Hybridoma	Myeloma x 63 Ag 8.653 x Balb/c
Source	Ascites fluid
Purification	Ion exchange or affinity chromatography
Conjugation	R Phycoerythrin (PE)
Molar Ratio	PE / Ig : 0.5 - 1.5
Fluorescence	Excites at 486-509 nm Emits at 568-590 nm

REAGENT CONTENTS
This antibody is provided in phosphate-buffered saline, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin.

APPLICATION
Flow cytometry.

STATEMENTS OF WARNING
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. 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.
3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use antibody beyond the expiration date on the label.
5. Do not expose reagents to strong 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.

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

PROCEDURE
This reagent is designed for Flow Cytometry.
Assay volume: 20 µL per 5 x 10^5 cells in one test, or per 100 µL whole blood.

SELECTED RESEARCH REFERENCES

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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.

TRADEMARKS

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