

Monoclonal Antibody CD2

PN IM0180 – Purified – Freeze-dried – 0.2 mg – Clone 6F10.3

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

SPECIFICITY

The CD2 antigen (LFA-2) is a monomeric 50 kDa glycoprotein which was formerly described as receptor for sheep red blood cells rosetting of T cells (1) and identified as LFA-3 (CD58) ligand.

It is also receptor for CD48, CD59, and CD15 binds to multimeric CD2.

CD2 is present on the majority of normal human peripheral blood T lymphocytes and on a high percentage of Natural Killer (NK) cells.

It is also expressed by all thymocytes. 6F10.3 monoclonal antibody (mAb) reacts with T11.2 epitope (2).

The combination of 6F10.3 and 39C1.5 mAb activates T cell in vitro.

6F10.3 reacts with T lymphocytes, thymocytes and NK cells.

The 6F10.3 mAb has been assigned to the CD2 cluster of differentiation at the fourth International Workshop on Human Leucocyte Differentiation Antigens held in Vienna, Austria, in 1989 (4).

REAGENT

Monoclonal Antibody CD2
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Clone 6F10.3

Isotype IgG1, mouse

Immunogen Human thymocytes

Hybridoma NS1 x Balb/c spleen cells

Source Ascites fluid

Purification Ion exchange or affinity chromatography

Buffer 1 mg/mL bovine serum albumin in phosphate-buffered saline

APPLICATION

Studies of CD2 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.

- Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
- Do not use antibody beyond the expiration date on the label.
- Avoid microbial contamination of reagents or incorrect results might occur.
- 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

- Sewell, W.A., Brown, M.H., Dunne, J., Owen, M.J., Crumpton, M.J., "Molecular cloning of the human T lymphocyte surface CD2 (T11)

antigen", 1986, Proc. Natl. Acad. Sci. USA, 83, 8718-8722.

- Meuer, S.C., Hussey, R.E., Fabbi, M., Fox, D., Acuto, O., Fitzgerald, K.A., Hodgdon, J.C., Protentis, S.F., Schlossman & Reinherz, "An alternative pathway of T-cell activation: a functional role for the 50 kD T11 sheep erythrocyte receptor protein", 1984, Cell, 36, 897-906.
- Sewell, W.A., Brown, M.H., Dunne, J., Totty, N.S., Owen, M.J., Crumpton, M.J., "Primary structure of CD2 predicted from the CDNA nucleotide sequence", 1987, Leucocyte Typing III, Michael, A.J., et al., Eds, Oxford University Press, 107-110.
- Bierer, B.E., Bogart, R.E., Wolff, I.H., Burkakoff, S.J., "Functional analysis of CD2 mAb reactivity, 1989, Leucocyte Typing IV, Knapp, W., et al., Eds, Oxford University Press, 274-277.

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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