

MONOCLONAL ANTIBODY CD80

Cat. No.	Form	Quantity	Presentation
1449	Purified	0.2 mg	Freeze-dried
1853	FITC	100 tests	Liquid 2 ml
1976	PE	100 tests	Liquid 2 ml

Clone MAB104

Isotype IgG1 (mouse)

Immunogen Jijoye cells (Human Burkitt Lymphoma cell line)

Hybridoma NS1 X balb/c spleen cells

Specificity The molecular weight of the recognized antigen is 60 kDa
 B cell activation antigen B7 is also called BB1 and clustered as CD80 during the Vth workshop.
 CD80 is a member of the Ig superfamily and serves as the ligand for two T-cell molecules CD28 and CTLA-4 (1)
 Interactions between CD28 and CD80 on activated B cells result in enhanced T-cell activation (1)
 MAB104 antibody reacts with *in vitro* activated normal B cells, with Epstein Barr Virus (EBV) transformed B cell lines, with Burkitts lymphoma cell lines and with freshly isolated follicular B lymphoma cells (2).
 It reacts weakly with a small proportion of non-activated normal B cells and with HTLV-1 infected T cells
 MAB104 antibody does not react with peripheral monocytes, resting and activated normal T cells, T-cell lines and T-cell clones, nor with myelomonocytic cell lines

Applications Flow cytometry
 Functional study of B cell subpopulations
 Study of B7/CD28 interactions amplified during secondary immune responses.

Buffer Freeze-dried forms 1 mg/ml bovine serum albumin in phosphate buffered saline
 Liquid forms 2 mg/ml bovine serum albumin in phosphate buffered saline containing 0.1% sodium azide

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MA003

FOR RESEARCH USE ONLY - NOT FOR USE IN DIAGNOSTIC PROCEDURES

Reconstitution and Storage

The freeze-dried form may be stored at 2-8°C until the expiration date. Reconstitute with 1 ml of distilled water. No preservative has been added. The reconstituted form may be stored at -20°C until the expiration date. Aliquoting is suggested to avoid multiple freeze-thaw cycles. The addition of sodium azide at 0.1% (w/v) is recommended for storage of the reconstituted form for up to one month at 2-8°C.

The conjugated forms should not be frozen and should be stored in the dark at 2 - 8°C.

Recommended Procedures

Fluorescent microscopy or flow cytometry

Liquid form. 20 µl/5x10⁵ cells/test or 100 µl whole blood

Freeze-dried form. 2 µg/5x10⁵ cells/test

Immunohistochemistry

Working dilution 1:20 to 1:50

This antibody is suitable on frozen sections or cell smears

References

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3) Vallé, A., Aubry, J.P., Durand, I., Banchereau, J. " IL-4 and IL-2 upregulate the expression of antigen B7, the B cell counterstructure to T-cell CD28 an amplification mechanism for T-B cell interactions", 1991, International Immunology, **3**, No 3, 229-235.

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