

**MONOCLONAL ANTIBODY CD38**

Cat. No.	Form	Quantity	Presentation
0366	Purified	0.2 mg	Freeze-dried
0775	FITC	100 tests	Liquid 2 ml
1832	Phycoerythrin	100 tests	Liquid 2 ml

**Clone** T16

**Isotype** IgG1 (mouse)

**Immunogen** PHA activated PBL

**Hybridoma** Myeloma SP2/0 X Balb/c spleen cells

**Specificity** The molecular weight of the recognized antigen is 45 kDa.  
 T16 monoclonal antibody is negative on peripheral B cells, but strongly positive on plasma cells.  
 It reacts with T cells, activated T cells and T-cell blasts.  
 T16 is also positive on leucocyte progenitors, although negative on the most primitive of them.

**Applications** Studies have shown anti-CD38 antibody can be useful in the identification of myeloma

**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.

**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. Aliquotting 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/5x10<sup>5</sup> cells/test or 100 µl whole blood  
 Freeze-dried form 2 µg/5x10<sup>5</sup> cells/test

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Immunohistochemistry:

Working dilution: 1 25 to 1 50

This antibody is only suitable on frozen sections or cell smears

**References**

1) Ling, N.R., MacLennan, I.C.M., Mason, D.Y., "B-cell and plasma cell antigens: new and previously defined clusters", in *Leucocyte Typing III White cell differentiation antigens* Mc Michael, A.J et al , Eds, Oxford Univ. Press, 1987, 302-335.

2) Terstappen, L.W.M.M., Huang, S , "Analysis of bone marrow stem cell", 1994, Blood Cells, **20**, 45-63.