

**MONOCLONAL ANTIBODY CD13**

Cat. No.	Form	Quantity	Presentation
0713	Purified	0.2 mg	Freeze-dried
0714	Purified	100 tests	Liquid 2 ml
0778	FITC	100 tests	Liquid 2 ml
1427	Phycoerythrin	100 tests	Liquid 2 ml

**Clone** SJ1D1

**Isotype** IgG1  $\kappa$  (mouse)

**Immunogen** KG1 cell line

**Hybridoma** Myeloma Sp 2/0 x Balb/c spleen cells

**Specificity** The molecular weight of the recognized antigen is 150 kDa.

This antibody recognizes cells of myeloid origin.

Reacts with monocytes, neutrophils, eosinophils, and basophils. Studies have shown that it also reacts with a proliferative subset of CFU-GM and myeloid leukemias.

Immunohistology: reacts with a variety of tissue cell types. Skin subepidermal macrophages are positive. This antibody gives "fibrous collagen type" staining around dermal gland and endothelium. Interfollicular macrophages in tonsils are stained. In kidney sections, glomeruli and proximal tubules are also stained.

**Applications**

- Flow cytometry.
- Fluorescent microscopy.
- Immunoprecipitation.
- Immunohistochemistry.

**Buffer** Freeze-dried form: 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.

February 20, 1995

MA003

FOR RESEARCH USE ONLY - NOT FOR USE IN DIAGNOSTIC PROCEDURES



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The purified liquid form should be stored 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 or 100 µl whole blood.

### Immunohistochemistry:

Suggested form: freeze-dried.

Working dilution: 1:20 to 1:50.

This antibody is only suitable on frozen sections or cell smears.

## References

- 1) Mirro, J. et al. "Changes in cell surface antigen expression during myelocytic and monocytic cell differentiation" in: Leucocyte Typing: Human leucocyte markers detected by monoclonal antibodies. Bernard, A. et al., eds. New York: Springer-Verlag, 442-446, 1984.
- 2) Mirro, J. et al. , "Acute mixed lineage leukemia: clinico-pathologic correlation and pronostic significance."1985, Blood, **66**, 1115-1123.
- 3) Freedman, A.S., and Nadler, L.M., "Cell surface markers in hematologic malignancies.", 1987, Seminars in Oncology, **14**, (2), 193-212.
- 4) Look, A.T. et al. "Molecular cloning, expression and chromosomal localization of the gene encoding a human myeloid membrane antigen (gp150)". 1986, J. Clin. Investigation, **78**, 914-921.
- 5) Cross, A.H. et al. "Acute myeloid leukemia with T-lymphoid features: a distinct clinical and biological entity." 1988, Blood, **72**, 579-587.