



## CD13

**Product:** Anti-human Myelomonocytic Monoclonal Antibody.

**Description:** Identification of human Monocytes and Granulocytes expressing the 150 kD M.W. surface antigen. CD13 is a membrane enzyme, Aminopeptidase N. Myeloid cells in regenerating bone marrow will have an increased expression of CD13 in comparison with normal bone marrow myeloid cells.

**Isotype:** Mouse IgG1 kappa.

**Clone:** E735.0

**Applications:** Monitoring of Monocyte/Granulocyte cell subsets in peripheral blood; Characterization of subtypes of leukemia's; Study of AIDS virus infection; Myeloid cell function studies; Analysis of hematopoietic maturation.

**Use:** PBMC: Add 10  $\mu$ l of MAB/10<sup>6</sup> PBMC in 100  $\mu$ l PBS. Mix gently and incubate for 15 minutes at 2<sup>o</sup> to 8<sup>o</sup>C. Wash twice with PBS and analyze. WHOLE BLOOD: Add 10  $\mu$ l of MAB/100  $\mu$ l of whole blood. Mix gently and incubate for 15 minutes at room temperature (20<sup>o</sup>C). Lyse the whole blood. Wash once with PBS and analyze. See instrument manufacturer's instructions for Lysed Whole Blood and Immunofluorescence analysis with a flow cytometer or microscope.

**Storage:** Unconjugated antibodies supplied as a 1 mg/ml solution PBS and 0.08% sodium azide and should be stored at -20<sup>o</sup>C. Conjugated antibodies are supplied in PBS, 0.08% sodium azide and 0.2% protein carrier and should be stored at 4-8<sup>o</sup>C. Conjugated antibodies should not be frozen. Reagents are stable for the period shown on the vial label when stored properly.

Ordering Information:	Form	Vial Size	Catalog #
	FITC	100 Test	0132
	Biotin	100 Test	0133
	PE	100 Test	0134

### REFERENCES:

1. Induction of CD13 expression on fresh myeloid leukemia: correlation of CD13 expression with aminopeptidase-N activity. Razak K; Newland AC Leuk Res 1992 Jun-Jul;16(6-7):625-30.
2. Surface marker expression in acute myeloid leukemia at first relapse. Thomas X; Campos L; Archimbaud E; Shi ZH; Treille-Ritouet D; Anglaret B; Fiere D Br J Haematol 1992 May;81(1):40-4.
3. Acute undifferentiated leukemia with CD7+ and CD13+ immunophenotype. Lack of molecular lineage commitment and association with poor prognostic features. Bassan R; Biondi A; Benvestito S; Tini ML; Abbate M; Viero P; Barbui T; Rambaldi A Cancer 1992 Jan 15;69(2):396-404.
4. Monocytes appearing repeatedly after chemotherapies had an identical rearrangement pattern of immunoglobulin with leukemic blasts in a patient with CD13+ acute lymphoblastic leukemia. Mizuki M; Tagawa S; Nojima J; Nakamura Y; Morita T; Yumura-Yagi K; Hara J; Kawa-Ha K; Kitani T Acta Haematol 1992;87(1-2):88-93.

**For research use only. Not for use in human diagnostics or therapeutics.**