

AM32069PU-N

Monoclonal Antibody to HL60 - Purified

Alternate names:	Human Leukemia cell line HL-60
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	HL-60 cells are used as an in vitro model of acute promyelocytic leukaemia and for differentiation and apoptosis studies. The HL60 cell line was established in 1977 from a patient with acute myeloid leukaemia. The cells largely resemble promyelocytes but can be induced to differentiate terminally in vitro. Some reagents cause HL60 cells to differentiate to granulocyte-like cells, others to monocyte/macrophage-like cells. The HL60 cell genome contains an amplified c-myc proto-oncogene; c-myc mRNA levels are correspondingly high in undifferentiated cells but decline rapidly following induction of differentiation.
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	IPO-M6
Immunogen:	IPO-M6 was generated after immunization of a BALB/c Mouse with Human Cell line HL-60. Mouse splenocytes were fused with the mouse myeloma cell line P3-X63-Ag8.653.
Format:	State: Liquid purified IgG fraction Buffer System: PBS Preservatives: 0.05% Sodium Azide Endotoxin Level: Flow Cytometry. Immunohistochemistry on Frozen Sections.
Specificity:	Reacts with Human leukemia cell line HL60 and immuno-precipitates with two proteins with MW of 48 and 52 kDa. <i>IPO-M6</i> does not stain B cell lines Daudi, PHS, Namalwa, RPMI-1788 and T-cell lines CCRF-HSB2, Jurkat and Molt-4. This antibody can be applied for staining of monocytes and up to 10 % of lymphocytes from peripheral blood of healthy donors. Blast cells of patients with AMMonL (M5 following FAB classification), AMMonL (M4) and hairy cells leukemia were IPO-M6 positive. The antigen, defined with this mAb, is particularly expressed on blood cells from patients with infectious mononucleosis and CLL. Histiocytes and macrophages were also positive. Malignant cells from patients with AML (M1 and M2), T-ALL, B-ALL were IPO-M6 negative.
Species Reactivity:	Tested: Human.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: 6 month from despatch.

General Readings:

1. Sidorenko SP, Vetrova EP, Iurchenko OV, Shlapatskaia LN, Berdova AG, Elenskaia AM, et al. [Monoclonal antibodies of the IPO series in studying and diagnosing malignant lymphoproliferative diseases]. Gematol Transfuziol. 1990 Apr;35(4):19-22. PubMed PMID: 2373343.
2. Sidorenko, S.P. et al. Experim. Oncology 17: 242 (1995) (Russian).