

Monoclonal Antibody to Erythroid Cells CSA (Nucleated) - Purified

Catalog No.: AM32741PU-N

Quantity: 0.1 mg

Concentration: 1.0 mg/ml

Host / Isotype: Mouse / IgM

Recommended Isotype Controls: SM13P

Clone: HAE9

Immunogen: Human fetal liver cells

Format: **State:** Liquid purified Ig fraction
Purification: Gel Filtration from tissue culture supernatants
Buffer System: 20mM PB pH 7.6, 250mM NaCl
Preservatives: 0.09% Sodium Azide

Applications: **Immunoprecipitation:** 5 µg/500 µl of cell lysate in 0.5% triton X-100 diluted in PBS with proteinase inhibitors.
Flow Cytometry: 10 µg/ml concentration (1/100); per 10⁶ cells, 100 µl sample volume.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: Cell Surface Antigen of Human Nucleated Erythroid Cells. AM32741PU-N recognizes a 70 kDa surface protein in about 100% nucleated erythroid cells (erythroblasts, normoblasts, proerythroblasts), 36% of late erythroid committed cells and 70-80% of fetal liver cells. Normal stem cells, early erythroid committed cells and hematopoietic non-erythroid cells do not react with this antibody AM32741PU-N.
The 70 kDa protein may be associated with an isoform of transferrin specific for red cells. Applicable for immunostaining and enumeration of nucleated erythroid cells in bone marrow, fetal liver or cord blood and immunophenotyping human leukemias (Mechetner, EB *et al.* 1987). Identification of a Human erythroid cell surface antigen by monoclonal antibody HAE9 (Exp Hematol. 15(4):355-9).
Negative Species: Mouse and Rat.

Species Reactivity: **Tested:** Human.

Storage: Store undiluted at 2-8°C.
Shelf life: one year from despatch.

General Readings: 1. Mechetner EB, Sedmak DD, Barth RF. Heterogeneity of peripheral blood reticulocytes: a flow cytometric analysis with monoclonal antibody HAE9 and thiazole orange. Am J Hematol. 1991 Sep;38(1):61-3. PubMed PMID: 1716850.
2. Tupitsyn NN, Mechetner EB, Baryschnikov Aju, Drozdova TS, Frenkel MA, Ievleva ES, et

al. Two different anti-erythroid monoclonal antibodies in immunodiagnosis of human leukemias: a comparative study. *Int J Cancer*. 1989 Oct 15;44(4):589-92. PubMed PMID: 2676869.

3. Mechetner EB, Tonevitsky AG, levleva ES, Rozinova EN, Popova ON. Identification of a human erythroid cell surface antigen by monoclonal antibody HAE9. *Exp Hematol*. 1987 May;15(4):355-9. PubMed PMID: 3569438.