

CD56 (5.1H11)

Analyte Specific Reagent (ASR)*

Type	Number of tests	Volume per test (μL)	Total volume (μL)	Catalog number
PE	50	5	250	4192022
	100	5	500	4192025

Antigen:	CD56
Immunogen:	Human myotube cells
Host/Isotype:	Mouse, IgG1, κ
Reactivity:	Human
Purity:	>90% pure tested via polyacrylamide gel electrophoresis (PAGE)
Formulation:	PBS, pH7.2, 0.09% NaN ₃ and 0.2% (w/v) BSA
Storage:	Store at 2-8°C and protected from prolonged exposure to light. Do not freeze.
Applications:	Flow Cytometry

Antigen Information

The clone 5.1H11, a mouse monoclonal antibody, selectively binds to the human 140-kDa glycoprotein, an isoform of neural cell adhesion molecule (NCAM) known as CD56. It is a member of Immunoglobulin (Ig) superfamily. CD56 and CD16 expressing lymphocytes are primarily considered as human NK cells and NK-T cells. A subset of CD56+ NK cells plays a unique functional role in the innate immune response as the primary source of NK cell-derived immunoregulatory cytokines, regulated in part by differential monokine production. CD56 is expressed in normal and as well as neoplastic human neuroendocrine tissues, certain large granular lymphocyte (LGL) leukemias, small-cell lung carcinomas, neuronal derived tumors, myelomas, and myeloid leukemias. Additionally, increased CD56+ lymphocyte subsets in peripheral blood are a significant predictive or prognostic factor in metastatic breast cancer.

References

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2. Lanier LL, et al. *J Immunol.* 1991. 146(12):4421-4426.
3. Jin L, et al. *Am J Pathol.* 1991 Apr;138(4):961-9.
4. Megan AC, et al. *Blood.* 97:3146-3151.
5. Nakano-Akamatsu S, et al. *Int.J. Hematol.* 2007. 86:348-351.
6. Yang J, et al. *Cancer Med.* 2019. DOI: 10.1002/cam4.1891

*Analyte Specific Reagent. The analytical and performance characteristics of this ASR product are not established.