



## CD16

**Product:** Anti-human NK Cell Monoclonal Antibody.

**Description:** Identification of human NK cell antigen expressing the 50 -70 kDa M.W. surface antigen associated with the IgG Fc receptor III on NK cells and Neutrophils. CD16 is expressed on approximately 15% of peripheral blood lymphocytes and is present on all resting NK cells. CD16 may be expressed on CD3 T cells from certain individuals.

**Isotype:** Mouse IgG1 kappa.

**Clone:** J5511

**Applications:** Monitoring of NK cell subsets in peripheral blood; Analysis of NK cell levels in peripheral blood; Characterization of subtypes of leukemia; Study of AIDS virus infection.

**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 20° to 8° C. Wash twice with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in 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°C). Lyse the whole blood. Wash once with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze. See instrument manufacture'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°C. Conjugated antibodies are supplied in PBS, 0.08% sodium azide and 0.2% protein carrier and should be stored at 4-8°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 #
	Pure	100 $\mu$ g	0161
	FITC	100 Test	0162
	Biotin	100 Test	0163
	PE	100 Test	0164

### REFERENCES:

1. CD16 on human gamma delta T lymphocytes: expression, function, and specificity for mouse IgG isotypes. Braakman E; van de Winkel JG; van Krimpen BA; Jansze M; Bolhuis RL Cell Immunol 1992 Aug;143(1):97-107
2. Fc gamma RIII activation is different in CD16+ cytotoxic T lymphocytes and natural killer cells. Uciechowski P; Gessner JE; Schindler R; Schmidt RE Eur J Immunol 1992 Jun;22(6):1635-8
3. Involvement of a metalloprotease in spontaneous and phorbol ester-induced release of natural killer cell-associated Fc gamma RIII (CD16-II). Harrison D; Phillips JH; Lanier LL J Immunol 1991 Nov 15;147(10):3459-65
4. CD16- CD56+ natural killer cells after bone marrow transplantation. Jacobs R; Stoll M; Stratmann G; Leo R; Link H; Schmidt RE Blood 1992 Jun 15;79(12):3239-44
5. Natural killer function in flow cytometry: identification of human lymphoid subsets able to bind to the NK sensitive target K562. Vitale M; Zamai L; Neri LM; Manzoli L; Facchini A; Papa S Cytometry 1991;12(8):717-22
6. In vitro responsiveness to interleukins and theophylline of CD16+, CD56- natural killer cells in a patient with chronic granular lymphocyte disorder. Bayle C; Vitte-Mony I; Lang P; Pico J; Hercend T; Bertoglio J Leukemia 1992 May;6(5):470-6
7. Signal transduction by Fc gamma RIII (CD16) is mediated through the gamma chain. Wirthmueller U; Kurosaki T; Murakami MS; Ravetch JV J Exp Med 1992 May 1;175(5):1381-90

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