CD2*

Product: Anti human T and NK subset Lymphocytes monoclonal antibody.

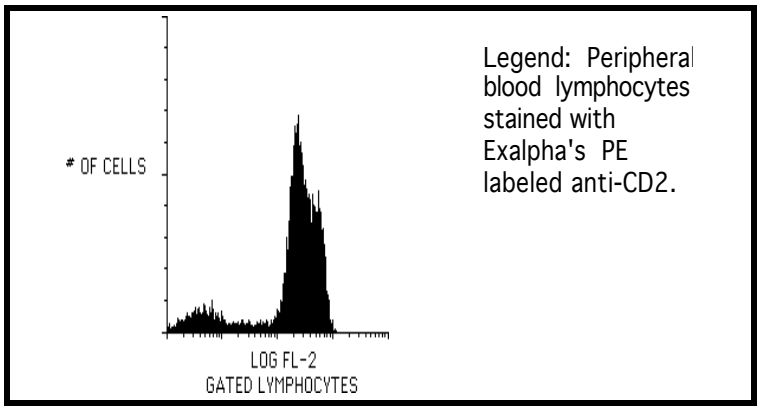
Description: Identification of human T cells and subset of NK cells associated with the receptor for sheep erythocytes rosettes expressing the 45-50,000 M.W. surface antigen.

Isotype: Mouse IgG-2A kappa

Clone: T6.3

Applications: Monitoring of T cells in peripheral blood; Analysis of NK subsets; Study of T cell activation.

Use: PBMC: Add10 µl of MAB/10^6 PBMC in 100 µl PBS. Mix gently and incubate for 15 minutes at 2^o to 8^oC. Wash twice with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze. WHOLE BLOOD: Add10 µl of MAB/100 µl of whole blood. Mix gently and incubate for 15 minutes at room temperature 20^oC. 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 manufacturer's instructions for Lysed Whole Blood and Immunofluorescence analysis with a flow cytometer or microscope. ALLOPHYCOCYANIN: (APC) conjugates are analyzed in multi-color flow cytometry with instruments equipped with a second laser and proper filters. Laser excitation is at 633 nm with a Helium Neon (HeNe) laser or a 600-640 nm (633 nm) range for a Dye laser. Peak fluorescence emission is at 660 nm.



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.

* Pure form tested for Exalpha for cross-reactivity with *Macaca* species monkey.

Ordering Information:

Form	Vial Size	Catalog #
Pure*	100 µg	0021
FITC	100 Test	0022
Biotin	100 Test	0023
PE	100 Test	0024
APC	100 Test	AP02

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

Exalpha Biologicals, Inc., 86 Rosedale Rd. Watertown, MA 02472

REFERENCES:

1. An Improved Rosetting Assay for Detection of Human T Lymphocytes. Kaplan M.E., Clark C., J. Immunol. Methods 1974, 5,131.

2. Structural and functional characterization of the CD2 immunoadhesion domain. Evidence for inclusion of CD2 in an alpha-beta protein folding class.Recny M.A., Neidhardt E.A., Sayre P.H., Ciardelli T.L., Reinherz E.L., J. Biol. Chem. 1990 May 2;265(15):8541-9.

3. Partial deletions of the cytoplasm domain of CD2 result in a partial defect in signal transduction. Bierer B.E., Bogart R.E., Burakoff S.J., J. Immunol. 1990 Feb. :144(3):785.

4. Functional CD2 mutants unable to bind to, or be stimulated by, LFA-3. Wolff H.L., Burakoff S.J., Bierer B.E., J. Immunol. 1990 Feb. 1;144(4):1215-20.

5. Association of CD2 and CD45 on human T lymphocytes. Schraven B., Samstag Y., Altevogt P., Meuer S.C., Nature 1990 May ;345(6270):71-4 .