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Monoclonal Antibody to CD8 - APC

Alternate names: CD8 alpha chain, CD8A, MAL, T-cell surface glycoprotein CD8 alpha chain, T-lymphocyte differentiation antigen T8/Leu-2

Catalog No.: AM05173AC-N

Quantity: 100 Tests

Concentration: Lot specific

Background: Identification of human T cells suppressor/cytotoxic expressing the 32 kDa M.W. surface antigen.

Uniprot ID: P01732

NCBI: NP_001759

GeneID: 925

Host / Isotype: Mouse / IgG1

Clone: 17D8

Format:
State: Liquid (sterile filtered) purified IgG fraction.
Buffer System: PBS containing 0.2% protein carrier and 0.08% Sodium Azide as preservative.
Label: APC – Allophycocyanin 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

Applications:
Flow Cytometry.
Monitoring of T cells subsets in peripheral blood; Analysis of NK cell subsets; Study of cell mediated cytotoxicity.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:
This antibody detects human T and NK Lymphocytes.
Species: Human.
Other species not tested.

Storage:
Store the antibody undiluted at 2-8°C.
Do Not Freeze!
Shelf life: One year from despatch.

General Readings:
1. Ledbetter JA, Evans RL, Lipinski M, Cunningham-Rundles C, Good RA, Herzenberg LA. Evolutionary conservation of surface molecules that distinguish T lymphocyte helper/inducer and cytotoxic/suppressor subpopulations in mouse and man. J Exp Med. 1981 Feb 1;153(2):310-23. PubMed PMID: 6165796.
2. Circulating Antigen-Specific Suppressor T Cells in a Healthy Woman: Mechanism of

Action and Isolation with a Monoclonal Antibody. Engleman,E.G.,Benike,C.J., and Evans,R.L., Clin. Res. 29, 365a 1981.
3. Kotzin BL, Benike CJ, Engleman EG. Induction of immunoglobulin-secreting cells in the allogeneic mixed leukocyte reaction: regulation by helper and suppressor lymphocyte subsets in man. J Immunol. 1981 Sep;127(3):931-5. PubMed PMID: 6455474.
4. Gallagher PF, Fazekas de St Groth B, Miller JF. CD4 and CD8 molecules can physically associate with the same T-cell receptor. Proc Natl Acad Sci U S A. 1989 Dec;86(24):10044-8. PubMed PMID: 2513572.
5. Shapiro HM, Glazer AN, Christenson L, Williams JM, Strom TB. Immunofluorescence measurement in a flow cytometer using low-power helium-neon laser excitation. Cytometry. 1983 Nov;4(3):276-9. PubMed PMID: 6363017.
6. Comparison of Helium Neon and Dye lasers for Excitation of Allophycocyanin. Loken, M.R., Kiej, J.F. and Kelly, K.,A. Cytometry 8, 96, 1987.

Protocols:

PBMC:
Add 10 ul of MAB/10e6 PBMC in 100 ul PBS.
Mix gently and incubate for 15 minutes at 2-8°C.
Wash twice with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze.

WHOLE BLOOD:
Add 10 ul of MAB/100 ul 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 manufacturer's instructions for Lysed Whole Blood and Immunofluorescence analysis with a flow cytometer or microscope.