

Monoclonal Antibody to CD8 - PE

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| Alternate names: | CD8 alpha chain, CD8A, MAL, T-cell surface glycoprotein CD8 alpha chain, T-lymphocyte differentiation antigen T8/Leu-2 |
| Catalog No.: | AM08116RP-N |
| Quantity: | 0.1 mg |
| Concentration: | 0.1 mg/ml |
| Background: | The CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell to cell interactions within the immune system. The CD8 antigen, acting as a coreceptor, and the T cell receptor on the T lymphocyte recognize antigen displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. The functional coreceptor is either a homodimer composed of two alpha chains, or a heterodimer composed of one alpha and one beta chain. Both alpha and beta chains share significant homology to immunoglobulin variable light chains. CD8 is expressed on most thymocytes and approximately 1/3 of peripheral blood T cells in humans. CD8 alpha/beta heterodimers are expressed only on TCR alpha/beta T cells, whereas CD8 alpha homodimers can be expressed on alpha/beta and gamma/delta T cells and some NK cells in humans. The pattern of expression in other species has not been well documented. |
| Uniprot ID: | Q0R4I4 |
| NCBI: | 9031 |
| Host / Isotype: | Mouse / IgG1 |
| Clone: | CT-8 |
| Format: | State: Liquid purified Ig fraction. Buffer System: PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent. Label: PE – R-Phycoerythrin |
| Applications: | Flow Cytometry ($\leq 0.2 \mu\text{g}/10^6$ cells): Identification and enumeration of CD8+ cells. (Ref.2) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. |
| Specificity: | This antibody recognizes alpha chain (34-kDa) of Chicken CD8. Species: Chicken. Other species not tested. |
| Storage: | Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch. |

For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

- General Readings:**
1. Tregaskes, C.A., F. Kong, E. Paramithiotis, C.-L. Chen, M.J.H. Ratcliffe, T. F. Davison, and J.R. Young. 1995. J. Immunol. 154:4485.
 2. Chan, M.L., C.-L. Chen, L. Ager, and M.D. Cooper. 1988. J. Immunol. 140:2133.
 3. Cooper, M.D., R.P. Bucy, and C.-L. Chen. 1990. In: The Avian Model in Developmental Biology: From Organism to Genes. Editions du CNRS, pp. 239-249.
 4. Chen, C.H. 1996. Personal communication.

Pictures: **Immunofluorescent Staining:** Chicken PBMC were double stained with Mouse anti-Chicken CD4-FITC and mouse anti-chicken CD8 α -R-PE. Small lymphocytes were then gated and analyzed on a FACScan(TM) flow cytometer (BDIS, San Jose, CA). Amount Used: $\leq 0.2 \mu\text{g}/10\text{e}6$ cells.

