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AM08141C5-N Monoclonal Antibody to CD8 - Cy5

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

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 / IgG2b

Clone: 3-298

Format: **State:** Liquid purified Ig fraction.
Buffer System: PBS containing 0.09% Sodium Azide as preservative.
Label: Cy5 – Cyanine 5

Applications: **Flow Cytometry:** < / = 1 µg/10e6 cells. (Ref.4)
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody recognizes the CD8 alpha chain of both the Chicken and Turkey. (Ref.4)
Species: Chicken and Turkey.
Other species not tested.

Storage: Store the antibody undiluted at 2-8°C for one month or in (aliquots) at -20°C for longer.
This product is photosensitive and should be protected from light.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:
1. Chan, M.L., C.-L. Chen, L. Ager, and M.D. Cooper. 1988. J. Immunol. 140:2133-2138. Tu
2. 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.

3. Tregaskes, C.A., F. Kong, E. Paramithiotis, C.-L. Chen, M.J.H. Ratcliffe, T. F. Davison, and J.R. Young. 1995. J. Immunol. 154:4485-4494.
4. Li, Z., K.E. Nestor, Y.M. Saif, Z. Fan, M. Luhtala, and O. Vainio. 1999. Poult Sci. 78:1526-1531.