

**AM08064BT-N****Monoclonal Antibody to Ly49C/F/H/I - Biotin****Alternate names:**

Killer cell lectin-like receptor, Klra3, Klra6, Klra8, Klra9, Ly-49C, Ly-49F, Ly-49H, Ly-49I, Ly49C, Ly49F, Ly49H, Ly49I, T cell surface glycoprotein Ly 49C, T cell surface glycoprotein Ly 49F, T cell surface glycoprotein Ly 49H, T cell surface glycoprotein Ly 49I

**Quantity:**

0.5 mg

**Concentration:**

0.5 mg/ml

**Background:**

Ly49C, Ly49F, Ly49H and Ly49I are members of the lectin like homodimeric Ly49 family of cell surface receptors. Mouse Ly49 receptors exhibit allelic specificity for MHC class I Ia molecules and are thought to serve to prevent natural killer (NK) cells from attacking normal cells, while allowing them to attack infected or transformed cells in which class I molecules have been down regulated. (Ref.2) These inhibitory receptors are also expressed on a subpopulation of mouse CD8+ T cells.

**Uniprot ID:**[Q64329](#)**NCBI:**[NP\\_034781](#)**GeneID:**[16634](#)**Host / Isotype:**

Hamster / IgG

**Clone:**

14B11

**Format:****State:** Liquid purified Ig fraction.**Buffer System:** PBS containing 0.09% Sodium Azide as preservative.**Label:** Biotin**Applications:****Flow Cytometry:**  $\leq 1 \mu\text{g}/10^6$  cells. (Ref.1,3)

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Specificity:**

This antibody is specific to an epitope common to the Ly49C, Ly49F, Ly49H and Ly49I allelic/splice variants.

The antibody stains ~ 90% of NK1.1+CD3- splenocytes, and ~ 6% of CD8+ spleen cells from C57BL/6 mice. (Ref.1) The antibody also stains 30-80% of NK1.1+CD3-splenocytes in other mouse strains tested (BALB/c, C3H, 129, SJL, AKR/J).

**Species:** Mouse.

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. Coles, M.C., C.W. McMahon, H. Takizawa, and D.H. Raulet. 2000. Memory Eur. J. Immunol. 30:236.

2. Ljunggren, H.G., and K. Karre. 1990. Immunol. Today 11:237.

3. McMahon, C., and D.H. Raulet. Personal communication.