

Monoclonal Antibody to MHC Class I H2 Kd/Dd - FITC

Catalog No.:	AM08081FC-N
Quantity:	0.5 mg
Concentration:	0.5 mg/ml
Background:	The 'classical' MHC Class I molecules are histocompatibility antigens encoded by the H-2 gene complex and consist of heterodimers of highly polymorphic alpha chains noncovalently associated with the invariant beta 2-Microglobulin. (Ref.3,4) These antigens are expressed on most nucleated cells but expression varies on different cell types. MHC Class I molecules present endogenously synthesized peptides to CD8+ T lymphocytes, which are usually cytotoxic T cells. (Ref.5) MHC Class I antigens expressed on thymic epithelial cells regulate the positive and negative selection of CD8+ T cells during T cell ontogeny. (Ref.3,6)
Host / Isotype:	Mouse / IgG2a
Clone:	34-1-2S
Immunogen:	C3HalphaBDF1 mouse splenocytes.
Format:	State: Liquid purified Ig fraction. Buffer System: PBS containing 0.09% Sodium Azide as preservative. Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: < / = 1 µg/10e6 cells. 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 in the alpha 3 domain that is common to H-2Kd and H-2Dd. It binds to a common determinant in the alpha 3 domains of H-2Kd and H-2Dd in the presence or absence of beta 2 Microglobulin. (Ref.7,8) It cross reacts with the alpha 3 domain of H-2Kb. (Ref.1,2) 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. Ozato, K., T.H. Hansen, and D.H. Sachs. 1980. J. Immunol. 125:2473. 2. Ozato, K., and D.H. Sachs. 1981. J. Immunol. 126:317. 3. Lawlor, D.A., et al. 1990. Annu. Rev. Immunol. 8:23. 4. Bjorkman, P.J., et al. 1987. Nature 329:506. 5. Yewdell, J.W., and J.R. Bennett. 1990. Cell 62:203. 6. Zijlstra, M., et al. 1990. Nature 344:742.

For research and in vitro use only. Not for diagnostic or therapeutic work.
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7. Allen, H., D. Wraith, P. Pala, B. Askonas, and R.A. Flavell. 1984. Nature 309:279.

8. Allen, H, J. Fraser, D. Flyer, S. Calvin, and R. Flavell. 1986. Proc. Natl. Acad. Sci. USA 83:7447

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