

## Monoclonal Antibody to MHC Class I - FITC

<b>Alternate names:</b>	HLA Class 1, MHC Class 1, Major Histocompatibility complex class I
<b>Catalog No.:</b>	AM08130FC-N
<b>Quantity:</b>	0.5 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	MHC Class I molecules play a central role in the immune system by presenting peptides derived from the endoplasmic reticulum lumen. MHC class I antigens are heterodimers consisting of one alpha chain (44kDa) with beta 2 microglobulin (11.5 kDa). The antigen is expressed by all somatic cells at varying levels. MHC Class I molecules are expressed on most nucleated cells where they present endogenously synthesized antigenic peptides to CD8+ T lymphocytes, which are usually cytotoxic T cells. (Ref.1-3) Fibroblasts or neurons however only show a low level of antigen.
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	F21-2
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Buffer System:</b> PBS containing 0.09% Sodium Azide as preservative. <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	<b>Flow Cytometry:</b> < / = 1 µg/10e6 cells. (Ref.1-4) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognizes a monomorphic epitope on avian MHC Class I molecules (Mr ~ 68 kDa). It also reacts with Turkey MHC Class I. <b>Species:</b> Chicken and Turkey. Other species not tested.
<b>Storage:</b>	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.
<b>General Readings:</b>	1. Salomonsen, J., K. Skjodt, M. Krone and M. Simonsen. 1987. Immunogenetics 25:373-382. 2. L.B. Moller, J. Kaufman, S. Verland, J. Salomonsen, D. Avila, J.D. Lambris and K. Skjodt. 1991. Immunogenetics 34:110-120. 3. Dunon, D., J. Salomonsen, K. Skjodt, J. Kaufman, and B.A. Imhof. 1990. Dev. Immunol. 1:127-135. 4. Salomonsen, J. Personal communication.

Pictures:

**Immunofluorescent Staining:** Chicken peripheral blood mononuclear cells were double-stained with Mouse anti-Chicken MHC Class I-FITC and Mouse anti-Chicken IgM-PE. Small lymphocytes were then gated and analyzed on a FACScan(TM) flow cytometer (BDIS, San Jose, CA). Amount Used: 1 µg/10e6 cells.

