

## Monoclonal Antibody to MHC Class I H-2Kd,Dd,q,u - FITC

<b>Alternate names:</b>	Class I major histocompatibility antigen H 2Kd
<b>Catalog No.:</b>	BM2243F
<b>Quantity:</b>	0.5 mg
<b>Concentration:</b>	0.5 mg/ml (OD280 nm)
<b>Background:</b>	MHC Class I H2 Kd is involved in the presentation of foreign antigens to the immune system. 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 Beta2-microglobulin. 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. MHC Class I antigens expressed on thymic epithelial cells regulate the positive and negative selection of CD8+ T cells during T cell ontogeny.
<b>Host / Isotype:</b>	Mouse / IgG3
<b>Clone:</b>	A5A1-Do4
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Purification:</b> Protein A Chromatography. <b>Buffer System:</b> 0.01 M PBS pH 7.2, containing 2.0 mM EDTA, 1% BSA as stabilizer and 0.09% Sodium Azide as preservative. <b>Label:</b> FITC – Fluorescein
<b>Applications:</b>	Cell Surface Analysis. Genetic Mapping. Allele specific cell elimination. FACS analysis: Use 1 µg to stain 1x10 <sup>6</sup> cells in Flow Cytometry. Complement-dependent microcytotoxicity killing. Immunoprecipitation. Functional Studies: blocking CTLs (class I-specific). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody detects classical mouse class I antigen; MW 45 kDa ubiquitously distributed. Present on 100% of T-Cells, B-Cells, Erythrocytes, Macrophages, Endothelial and Epithelial tissue. Positive with this antibody are strains of independent haplotypes H-2KdDd,q,u. Positive are intra-H-2 recombinants carrying alleles Kd, Dd, Dq. Strains carrying all other alleles are negative.
<b>Species Reactivity:</b>	<b>Tested:</b> Mouse.

**Storage:**

Store the antibody undiluted at 2-8°C.

**DO NOT FREEZE!**

This product is photosensitive and should be protected from light.

Shelf life: one year from despatch.

**General Readings:**

1. Hauptfeld, V. (1984), Immunogenetics, 19: 169.