

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

<b>Catalog No.:</b>	BM2237F
<b>Quantity:</b>	0.5 mg
<b>Concentration:</b>	0.5 mg/ml
<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 / IgG2b
<b>Recommended Isotype Controls:</b>	SM12F
<b>Clone:</b>	B3A6-Do7
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Purification:</b> Protein G Chromatography <b>Buffer System:</b> 0.01 M PBS pH 7.2 with 0.09% Sodium Azide as a preservative and 1% BSA as stabilizer. <b>Label:</b> FITC – Fluorescein
<b>Applications:</b>	FACS analysis: Use 1 µg to stain 1x10 <sup>6</sup> cells in Flow Cytometry. Haplotype identification. Complement-dependent cytotoxicity. PVP-Hemagglutination. Western blotting. Immunoprecipitation. Heterozygote typing. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	Antibody recognizes classical class I antigen, detecting a public specificity shared by both loci K and D. Classical class I antigen, ubiquitously expressed. Antigen is present on 100% of T-Cells, B-Cells, Erythrocytes, Macrophages, endocrine Cells, Endothelial and Epithelial Cells.

**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.