

OriGene Technologies Inc.

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BM2243F OriGene EU

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

Alternate names:	Class I major histocompatibility antigen H 2Kd
Catalog No.:	BM2243F
Quantity:	0.5 mg
Concentration:	0.5 mg/ml (OD280 nm)
Background:	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.
Host / Isotype:	Mouse / IgG3
Clone:	A5A1-Do4
Format:	 State: Liquid purified Ig fraction. Purification: Protein A Chromatography. Buffer System: 0.01 M PBS pH 7.2, containing 2.0 mM EDTA, 1% BSA as stabilizer and 0.09% Sodium Azide as preservative. Label: FITC – Fluorescein
Applications:	Cell Surface Analysis. Genetic Mapping. Allele specific cell elimination. FACS analysis: Use 1 µg to stain 1x10e6 cells in Flow Cytometry. Complement-dependent microcytoxicity 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.
Specificity:	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, Ld, Dq. Strains carrying all other alleles are negative.
Species Reactivity:	

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request. Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com



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

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