

Monoclonal Antibody to MHC Class I H-2 Db - FITC

Alternate names:	D-B alpha chain, H-2 class I histocompatibility antigen, H-2D(B), H2-D1
Catalog No.:	AM08082FC-N
Quantity:	0.5 mg
Concentration:	0.5 mg/ml
Background:	<p>In the mouse the MHC Class 1 loci are called H2K, H2L and H2D. The equivalent loci in the human MHC are HLA (Human Leukocyte Antigen).</p> <p>MHC class I molecules are heterodimers, consisting of a single transmembrane polypeptide chain (the α-chain) which is highly polymorphic, and the invariant beta 2 Microglobulin (which is encoded elsewhere, not in the MHC). MHC class I molecules are found on almost every nucleated cell of the body. Their major function is to present peptide fragments derived from antigens to cytotoxic T cells.</p>
Uniprot ID:	P01899
NCBI:	NP_034510.3
GeneID:	14964
Host / Isotype:	Mouse / IgG2a
Clone:	27-11-13S
Immunogen:	C3H alphaBDF1 splenocytes. (Ref.1)
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: $< / = 1 \mu\text{g}/10\text{e}6$ cells. (Ref.1-3) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	<p>This antibody recognizes the alpha 3 domain of H-2Db class I MHC antigen. It cross-reacts with the alpha 3 domain of H-2Ld, H-2Dq and H-2Lq, but not H-2Kd or H-2Dd. Reactivity with haplotypes k, f, p, r, and s has not been observed. Customer feedback: Clone 27-11-13S does not cross-react with human cells.</p> <p>Species: Mouse. Other species not tested.</p>
Storage:	<p>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.</p>
General Readings:	1. Ozato, K., T.H. Hansen, and D.H. Sachs. 1980. Monoclonal antibodies to mouse MHC antigens. II. Antibodies to the H-

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.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com



2Ld antigen, the products of a third polymorphic locus of the mouse major histocompatibility complex. J. Immunol. 125:2473-2477.

2. Ozato, K., and D.H. Sachs. 1981. Monoclonal antibodies to mouse MHC antigens. III. Hybridoma antibodies reacting to antigens of the H-2b haplotype reveal genetic control of isotype expression. J. Immunol. 126:317-321.

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.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com