**AM08082PU-N**

**Monoclonal Antibody to MHC Class I H-2 Db - Purified**

**Alternate names:** D-B alpha chain, H-2 class I histocompatibility antigen, H-2D(B), H2-D1

**Quantity:** 0.5 mg

**Concentration:** 0.5 mg/ml

**Background:**
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). MHC class I molecules are heterodimers, consisting of a single transmembrane polypeptide chain (the a-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.

**Uniprot ID:** P01899

**NCBI:** NP_034510.3

**GeneID:** 14964

**Host / Isotype:** Mouse / IgG2a

**Recommended Isotype Controls:** AM03096PU-N

**Clone:** 27-11-13S

**Immunogen:** BDF1 mouse splenocytes. (Ref.1)

**Format:**
- **State:** Liquid purified Ig fraction.
- **Buffer System:** 100 mM Borate Buffered Saline, pH 8.2.
  No preservatives or amine-containing buffer salts added.

**Applications:**
- **Flow Cytometry** (See Ref.2)
- **Immunohistochemistry:** Acetone-Fixed, Frozen Tissue Sections only.
- **Complement-mediated cytotoxicity** (See Ref.1,2)
- **Immunocytochemistry** (See Ref. 3).
- **CMCD** (Reported in Ref.1).
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Specificity:**
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-2Dd and H-2Lq, but not H-2Kd or H-2Dd.

**Customer feedback:** Clone 27-11-13S does not cross-react with Human cells.

**Species:** Mouse.
Other species not tested.

**Storage:**
Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

**General Readings:**
1. Ozato K, Sachs DH. Monoclonal antibodies to mouse MHC antigens. III. Hybridoma

