

## Product datasheet

# Anti-MHC Class 1 H2 Db antibody [28-14-8] (Biotin) ab25237

### 1 References

#### Overview

<b>Product name</b>	Anti-MHC Class 1 H2 Db antibody [28-14-8] (Biotin)
<b>Description</b>	Mouse monoclonal [28-14-8] to MHC Class 1 H2 Db (Biotin)
<b>Host species</b>	Mouse
<b>Conjugation</b>	Biotin
<b>Specificity</b>	This antibody binds to the $\alpha 3$ domain of H-2Db in the presence or absence of $\beta 2$ microglobulin. It cross reacts with the $\alpha 3$ domain of H-2Ld, but not Kd or Dd, and with H-2Dq and/or Lq.
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, IHC-Fr
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	C3H.SW mouse splenocytes.
<b>Epitope</b>	This antibody recognises an epitope in the $\alpha 3$ domain of H-2Db.
<b>General notes</b>	<p>This antibody has been shown to block H-2Ld-specific and H-2Ld-restricted antigen-specific lysis of target cells by cytotoxic T lymphocytes, but it does not block recognition of H-2Ld-positive target cells by Ly-6G2-positive NK cells. This antibody has been shown to be useful in studies of complement mediated cytotoxicity.</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.2% Sodium azide Constituent: PBS
<b>Purity</b>	IgG fraction
<b>Primary antibody notes</b>	This antibody has been shown to block H-2Ld-specific and H-2Ld-restricted antigen-specific lysis of target cells by cytotoxic T lymphocytes, but it does not block recognition of H-2Ld-positive target cells by Ly-6G2-positive NK cells. This antibody has been shown to be useful in studies of complement mediated cytotoxicity.
<b>Clonality</b>	Monoclonal

<b>Clone number</b>	28-14-8
<b>Isotype</b>	IgG2a
<b>Light chain type</b>	kappa

## Applications

Our [Abpromise guarantee](#) covers the use of **ab25237** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 1µg for 10 <sup>6</sup> cells. <a href="#">ab18454</a> - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
IHC-Fr		Use at an assay dependent concentration.

## Target

### Relevance

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 α-chain) which is highly polymorphic, and the invariant β2 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.

### Cellular localization

Cell Membrane; single pass type I membrane protein

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