

Product datasheet

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

1 References

Overview

Product name	Anti-MHC Class 1 H2 Db antibody [28-14-8] (Biotin)
Description	Mouse monoclonal [28-14-8] to MHC Class 1 H2 Db (Biotin)
Host species	Mouse
Conjugation	Biotin
Specificity	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.
Tested applications	Suitable for: Flow Cyt, IHC-Fr
Species reactivity	Reacts with: Mouse
Immunogen	C3H.SW mouse splenocytes.
Epitope	This antibody recognises an epitope in the $\alpha 3$ domain of H-2Db.
General notes	<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

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.2% Sodium azide Constituent: PBS
Purity	IgG fraction
Primary antibody notes	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.
Clonality	Monoclonal

Clone number	28-14-8
Isotype	IgG2a
Light chain type	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 1 µg for 10 ⁶ cells. ab18454 - 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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