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Product datasheet for AM08080RP-N

H2-D1 Mouse Monoclonal Antibody [Clone ID: 28-14-8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	28-14-8
Applications:	FC
Recommended Dilution:	**Flow Cytometry:** ≤ 0.5 µg/10e6 cells.
Reactivity:	Mouse
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	C3H.SW mouse splenocytes. (Ref.1,2)
Specificity:	This antibody is specific to an epitope in the alpha 3 domain of H-2Db. It binds to the alpha 3 domain of H-2Db in the presence or absence of beta 2 microglobulin. (Ref.7,8) It cross reacts with the alpha 3 domain of H-2Ld, but not Kd or Dd, and with H-2Dq and/or Lq. The antibody has been shown to block H-2Ld-specific and H-2Ld-restricted antigen-specific lysis of target cells by cytotoxic T lymphocytes, (Ref.9-11) but it does not block recognition of H-2Ld-positive target cells by Ly-6G2-positive NK cells. (Ref.12) Customer feedback: Clone 28-14-8 does not cross-react with human cells.
Formulation:	PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent. Label: PE State: Liquid purified Ig fraction. Label: R-Phycoerythrin
Concentration:	lot specific
Conjugation:	PE
Storage:	Store the antibody undiluted at 2-8°C. **DO NOT FREEZE!** This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	histocompatibility 2, D region locus 1

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Database Link: Entrez Gene 14964 Mouse
P01899

Background: 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 beta 2-Microglobulin. (Ref.3,4) 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. (Ref.5)

Synonyms: H-2D(B), H2-D1