OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AM08080BT-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:** < / = 1 µg/10e6 cells. **Immunohistochemistry on Frozen Tissue Sections.**
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:	1.0 mL PBS containing 0.09% Sodium Azide as preservative. Label: Biotin State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Biotin
Storage:	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.
Stability:	Shelf life: one year from despatch.
Database Link:	Entrez Gene 14964 Mouse P01899

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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