

## Product datasheet for **AM08080PU-N**

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

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	28-14-8
Applications:	CT, FC, FN, IHC, IP
Recommended Dilution:	<b>Flow Cytometry:</b> $\leq 1 \mu\text{g}/10^6$ cells. (Ref.4,7,8). <b>Immunoprecipitation</b> (Ref.2,3). <b>Complement-mediated cytotoxicity</b> (Ref.1,5,6). <b>Immunohistochemistry on Frozen Sections.</b> (Ref.4). <b>Blocking</b> (Ref.6).
Reactivity:	Mouse
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	C3H.SW mouse splenocytes.
Specificity:	This antibody is specific to an epitope in the $\alpha 3$ domain of H-2D <sup>b</sup> in the presence or absence of $\beta 2$ microglobulin. It cross reacts with the $\alpha 3$ domain of H-2L <sup>d</sup> , but not K <sup>d</sup> or D <sup>d</sup> , and with H-2D <sup>q</sup> and/or L <sup>q</sup> . The antibody has been shown to block H-2D <sup>b</sup> -specific and H-2L <sup>d</sup> -restricted antigen-specific lysis of target cells by cytotoxic T lymphocytes but it does not block recognition of H-2L <sup>d</sup> -positive target cells by Ly-6G2-positive NK cells. Customer feedback: Clone 28-14-8 does not cross-react with Human cells.
Formulation:	1.0 ml Borate Buffered Saline, pH 8.2. No preservatives or amine-containing buffer salts added. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.



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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. 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<sup>+</sup> T lymphocytes which are usually cytotoxic T cells. MHC Class I antigens expressed on thymic epithelial cells regulate the positive and negative selection of CD8<sup>+</sup> T cells during T cell ontogeny.

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