

## Product datasheet for **AM08081PU-N**

### MHC Class I H2 Kd/Dd Mouse Monoclonal Antibody [Clone ID: 34-1-2S]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	34-1-2S
Applications:	CT, FC, IHC
Recommended Dilution:	<b>Flow Cytometry:</b> < / = 1 µg/10e6 cells (see Ref. 11) <b>Immunohistochemistry</b> (Acetone-Fixed, Frozen Tissue Sections, see Ref. 11). <b>Immunoprecipitation</b> (see Ref. 9) <b>Complement-mediated Cytotoxicity.</b>
Reactivity:	Mouse
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	C3HalphaBDF1 mouse splenocytes.
Specificity:	This antibody is specific to an epitope in the alpha 3 domain that is common to H-2Kd and H-2Dd. It binds to a common determinant in the alpha 3 domains of H-2Kd and H-2Dd in the presence or absence of beta 2 Microglobulin. (Ref.7,8) It cross reacts with the alpha 3 domain of H-2Kb. (Ref.1,2)
Formulation:	100 mM 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 for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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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) MHC Class I antigens expressed on thymic epithelial cells regulate the positive and negative selection of CD8+ T cells during T cell ontogeny. (Ref.3,6)