

Technical Data Sheet

Purified NA/LE Mouse Anti-Mouse H-2D[b]

Product Information

Material Number:	559579
Size:	0.5 mg
Concentration:	1.0 mg/ml
Clone:	28-14-8
Immunogen:	C3H.SW mouse splenocytes
Isotype:	Mouse (C3H) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2 μ m sterile filtered. Endotoxin level is ≤ 0.01 EU/ μ g (≤ 0.001 ng/ μ g) of protein as determined by the LAL assay.

Description

The 28-14-8 antibody reacts with the $\alpha 3$ domain of the H-2D[b] MHC class I alloantigen. The antibody binds to H-2D[b] in the presence or absence of the $\beta 2$ microglobulin chain. It cross-reacts with the $\alpha 3$ domain of H-2L[d], but not with K[d] or D[d], and with H-2D[q] and/or L[q]. Reactivity with haplotypes *k*, *f*, *p*, *r*, and *s* has not been observed. mAb 28-14-8 has been shown to block H-2L[d]-specific and H-2L[d]-restricted antigen-specific lysis of target cells by cytotoxic T lymphocytes (CTL), but it does not block recognition of H-2L[d] positive target cells by Ly-6G2-positive NK cells.

Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Application

Flow cytometry	Routinely Tested
Blocking	Reported
Cytotoxicity	Reported
Immunoprecipitation	Reported
Radioimmunoassay	Reported

Suggested Companion Products

Catalog Number	Name	Size	Clone
553453	Purified NA/LE Mouse IgG2a, κ Isotype Control	0.5 mg	G155-178
553600	Purified Mouse Anti-Mouse H-2D[b]	0.5 mg	28-14-8

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Allen H, Fraser J, Flyer D, Calvin S, Flavell R. Beta 2-microglobulin is not required for cell surface expression of the murine class I histocompatibility antigen H-2Db or of a truncated H-2Db. *Proc Natl Acad Sci U S A*. 1986; 83(19):7447-7451. (Clone-specific: Immunoprecipitation)

Allen H, Wraith D, Pala P, Askonas B, Flavell RA. Domain interactions of H-2 class I antigens alter cytotoxic T-cell recognition sites. *Nature*. 1984; 309(5965):279-281. (Clone-specific: Radioimmunoassay)

Evans GA, Margulies DH, Shykind B, Seidman JG, Ozato K. Exon shuffling: mapping polymorphic determinants on hybrid mouse transplantation antigens. *Nature*. 1982; 300(5894):755-757. (Clone-specific: Radioimmunoassay)

Kündig TM, Bachmann MF, DiPaolo C. Fibroblasts as efficient antigen-presenting cells in lymphoid organs. *Science*. 1995; 268(5215):1343-1347. (Clone-specific: Blocking)

Mason LH, Ortaldo JR, Young HA, Kumar V, Bennett M, Anderson SK. Cloning and functional characteristics of murine large granular lymphocyte-1: a member of the Ly-49 gene family (Ly-49G2). *J Exp Med*. 1995; 182(2):293-303. (Clone-specific: Blocking)

Om A, Goodenow RS, Hood L. Product of a transferred H-2Ld gene acts as restriction element for LCMV-specific killer T cells. *Nature*. 1982; 297(5865):415. (Clone-specific: Blocking)

Ozato K, Hansen TH, Sachs DH. Monoclonal antibodies to mouse MHC antigens. II. Antibodies to the H-2Ld antigen, the products of a third polymorphic locus of the mouse major histocompatibility complex. *J Immunol*. 1980; 125(6):2473-2477. (Immunogen: Cytotoxicity)

Ozato K, Sachs DH. Monoclonal antibodies to mouse MHC antigens. III. Hybridoma antibodies reacting to antigens of the H-2b haplotype reveal genetic control of isotype expression. *J Immunol*. 1981; 126(1):317-321. (Immunogen: Cytotoxicity)

Woodward JG, Om A, Harmon RC, Goodenow RS, Hood L, Frelinger JA. Specific recognition of the product of a transferred major histocompatibility complex gene by cytotoxic T lymphocytes. *Proc Natl Acad Sci U S A*. 1982; 79(11):3613-3617. (Clone-specific: Blocking)

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