

Technical Data Sheet

Biotin Mouse Anti-Mouse H-2K[b]/H-2D[b]

Product Information

Material Number:	553576
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	28-8-6
Immunogen:	C3H.SW mouse splenocytes
Isotype:	Mouse (C3H) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The 28-8-6 antibody reacts with the H-2K[b] and H-2D[b] MHC class I alloantigens. The reaction with H-2K[b] has been reported to be stronger than that with H-2D[b]. Its recognition of H-2D[b] is dependent upon the presence of $\beta 2$ microglobulin. Cross-reactivity with an epitope on the N-terminal domains, $\alpha 1$ and $\alpha 2$, of the H-2D[d] MHC class I alloantigen has also been described. Reactivity with other haplotypes (e.g., *f*, *k*, *p*, *q*, *r*, *s*) has not been observed.

Preparation and Storage

The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested
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Recommended Assay Procedure:

For immunohistochemical staining of cells expressing MHC class I antigen of the *b* haplotype, we recommend the use of biotinylated anti-mouse H-2K[b] mAb AF6-88.5 in our special formulation for immunohistochemistry, Cat. no. 550550.

Suggested Companion Products

Catalog Number	Name	Size	Clone
550550	Biotin Mouse Anti-Mouse H-2K[b]	1.0 ml	AF6-88.5
553455	Biotin Mouse IgG2a, κ Isotype Control	0.25 mg	G155-178
554061	PE Streptavidin	0.5 mg	(none)

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.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

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.(Biology)
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.(Biology)
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)

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