

## Technical Data Sheet

## Biotin Mouse Anti-Mouse H-2K[d]

## Product Information

Material Number:	553564
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	SF1-1.1
Immunogen:	BALB/c mouse cells
Isotype:	Mouse (SJL) IgG2a, $\kappa$
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

## Description

The SF1-1.1 antibody reacts with the  $\alpha 3$  domain of the H-2K[d] MHC class I alloantigen. Reactivity with other haplotypes (e.g, *b, j, k, p, q, s, v*) has not been observed. It has been reported that plate-bound SF1-1.1 mAb moderately enhances the apoptotic response of thymocytes to plate-bound 145-2C11 mAb (anti-mouse CD3e, Cat. No. 557306/553058).

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

## Preparation and Storage

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

The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.

Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

## Application Notes

## Application

Flow cytometry	Routinely Tested
ELISA	Reported
Immunohistochemistry-frozen	Reported
Immunohistochemistry-formalin (antigen retrieval required)	Not Recommended

## Suggested Companion Products

Catalog Number	Name	Size	Clone
553455	Biotin Mouse IgG2a, $\kappa$ 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](http://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

Abastado JP, Casrouge A, Kourilsky P. Differential role of conserved and polymorphic residues of the binding groove of MHC class I molecules in the selection of peptides. *J Immunol.* 1993; 151(7):3569-3575.(Biology)  
 Matsumoto S, Setoyama H, Umesaki Y. Differential induction of major histocompatibility complex molecules on mouse intestine by bacterial colonization. *Gastroenterology.* 1992; 103(6):1777-1782.(Clone-specific: Immunohistochemistry)  
 Noun G, Reboul M, Abastado JP, Jaulin C, Kourilsky P, Pla M. Alloreactive monoclonal antibodies select Kd molecules with different peptide profiles. *J Immunol.* 1996; 157(6):2455-2461.(Clone-specific: ELISA)  
 Zhao Y, Iwata M. Cross-linking of the TCR-CD3 complex with CD4, CD8 or LFA-1 induces an anti-apoptotic signal in thymocytes: the signal is canceled by FK506. *Int Immunol.* 1995; 7(9):1387-1396.(Biology)

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