Technical Data Sheet

Purified Mouse Anti-Mouse H-2K[d]

Product Information

Material Number:	**553563**
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	SF1-1.1
Immunogen:	BALB/c mouse cells
Isotype:	Mouse (SJL) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The SF1-1.1 antibody reacts with the α3 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.
Store undiluted at 4° C.

Application Notes

Application

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

Recommended Assay Procedure:
For immunohistochemical staining (IHC) of acetone-fixed frozen sections, we recommend the use of biotinylated SF1-1.1 mAb, Cat. No. 553564.

Suggested Companion Products

Catalog Number	Name	Size	Clone
553454	Purified Mouse IgG2a κ Isotype Control	0.5 mg	G155-178
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

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.
4. Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE™ (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.

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References

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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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