Technical Data Sheet

FITC Mouse Anti-Mouse H-2D[d]

Product Information

553579 **Material Number:** 0.5 mg Size: 0.5 mg/ml **Concentration:** 34-2-12 Clone:

(C57BL/6 x DBA/2)F1 mouse splenocytes Immunogen:

Mouse (C3H) IgG2a, κ Isotype: QC Testing: Mouse Reactivity:

Aqueous buffered solution containing ≤0.09% sodium azide. Storage Buffer:

Description

The 34-2-12 antibody (also known as 34-2-12S) recognizes the \$\alpha\$ domain of the H-2D[d]. The binding of the antibody to its epitope is independent of the α1 and α2 domains and β2 microglobulin. It cross-reacts with cells of the C3H.LG/Ckc strain. Reactivity with other haplotypes (eg, b, f, k, p, q, r, s) has not been observed. Soluble mAb 34-2-12 blocks binding of the Ly-49A-expressing T lymphoma EL4 to immobilized H-2D[d]. However, further studies utilizing this mAb indicate that the α3 domain is not involved in the interaction between Ly-49A, or Ly-49G2, and H-2D[d].

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 FITC under optimum conditions, and unreacted FITC was removed.

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

Application Notes

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Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
553456	FITC Mouse IgG2a, κ Isotype Control	0.25 mg	G155-178

Product Notices

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

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McCluskey J, Bluestone JA, Coligan JE, Maloy WL, Margulies DH. Serologic and T cell recognition of truncated transplantation antigens encoded by in vitro deleted class I major histocompatibility genes. J Immunol. 1986; 136(4):1472-1481.(Clone-specific: Immunoprecipitation)

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Otten GR, Bikoff E, Ribaudo RK, Kozlowski S, Margulies DH, Germain RN. Peptide and beta 2-microglobulin regulation of cell surface MHC class I conformation and expression. *J Immunol*. 1992; 148(12):3723-3732 (Biology)
Ozato K, Mayer NM, Sachs DH. Monoclonal antibodies to mouse major histocompatibility complex antigens. *Transplantation*. 1982; 34(3):113-120 (Immunogen:

Cytotoxicity)

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