Technical Data Sheet

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

Product Information

Material Number:	**553578**
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	34-2-12
Immunogen:	(C57BL/6 x DBA/2)F1 mouse splenocytes
Isotype:	Mouse (C3H) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The 34-2-12 antibody (also known as 34-2-12S) recognizes the α3 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 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

Recommended Assay Procedure:
For immunohistochemical staining (IHC) of frozen sections expressing MHC class I antigen of the *d* haplotype, we recommend the use of biotinylated anti-mouse H-2Kd mAb SF1-1.1, Cat. No. 553564. mAb SF1-1.1 is not recommended for IHC of formalin-fixed paraffin-embedded sections.

Suggested Companion Products

Catalog Number	Name	Size	Clone
553455	Biotin Mouse IgG2a, κ Isotype Control	0.25 mg	G155-178

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

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