Technical Data Sheet

Biotin Rat Anti-Mouse I-A/I-E

Product Information

Material Number:	**553622**
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	2G9
Immunogen:	BALB/c mouse epidermal Langerhans cells
Isotype:	Rat (DA) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The 2G9 antibody reacts with the I-Ad and I-Ed MHC class II alloantigens. It also reacts with transfectants expressing I-Eb and I-Ek and with cells from mice of the H-2p and H-2q haplotypes. This antibody is non-reactive with cells from SJL (H-2s) and NOD (H-2g7) mice. Flow cytometric analysis indicates that the 2G9 and M5/114.15.2 (Cat. No. 556999, for purified mAb) monoclonal antibodies have comparable reactivity on cells from mice with I-Ab, I-Ad, I-Aq, I-Ed, and I-Ek alloantigens.

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
Immunohistochemistry-frozen	Tested During Development

Recommended Assay Procedure:
Other applications include immunohistochemical staining of acetone-fixed frozen sections.

Suggested Companion Products

Catalog Number	Name	Size	Clone
556999	Purified Rat Anti-Mouse I-A/I-E	0.5 mg	M5/114.15.2
553928	Biotin Rat IgG2a κ Isotype Control	0.25 mg	R35-95
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

Becker D, Mohamadzadeh M, Reske K, Knop J. Increased level of intracellular MHC class II molecules in murine Langerhans cells following in vivo and in vitro administration of contact allergens. *J Invest Dermatol.* 1992; 99(5):545-549.(Immunogen)

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