

Technical Data Sheet

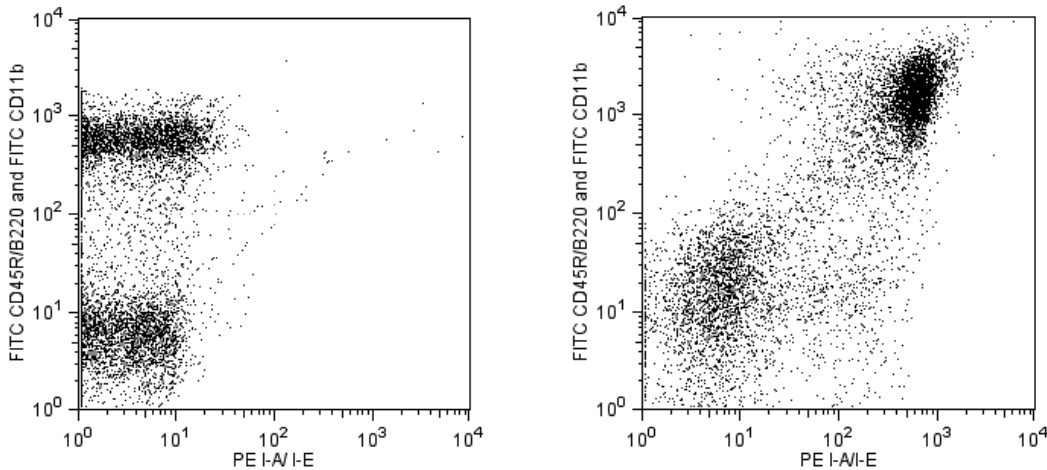
PE Rat anti-Mouse I-Ad/I-Ed

Product Information

Material Number:	558593
Size:	0.1 mg
Concentration:	0.2 mg/ml
Clone:	2G9
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.



Expression of PE anti-mouse I-A/I-E on splenocytes from positive and negative mouse strains. Mouse spleen cells from either SJL or BALB/c mice were stained simultaneously with PE anti-I-A/I-E (clone: 2G9; Cat. No. 558593), FITC anti-mouse CD45R/B220 (Clone: RA3-6B2; Cat. No. 553088) and FITC anti-mouse CD11b (Clone: M1/70; Cat. No. 553310). The right panel dot plot represents the positive BALB/c mouse splenocytes while the left panel shows the negative SJL mouse splenocytes. Mouse I-A/I-E is expressed on both B cells and macrophages and reacts with the I-Ad and I-Ed MHC class II alloantigens. Flow cytometry was performed on a BD FACSCalibur™ flow system.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed. Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
553930	PE Rat IgG2a, κ Isotype Control	0.1 mg	R35-95
553310	FITC Rat Anti-Mouse CD11b	0.5 mg	M1/70
553088	FITC Rat Anti-Mouse CD45R/B220	0.5 mg	RA3-6B2

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.

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3. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
4. 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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