

Technical Data Sheet

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

Product Information

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|-------------------------|---|
| Material Number: | 562010 |
| Size: | 25 µg |
| Concentration: | 0.2 mg/ml |
| Clone: | M5/114.15.2 |
| Immunogen: | Activated C57BL/6 Mouse Spleen |
| Isotype: | Rat ((BN x LEW)) IgG2b, κ |
| Reactivity: | QC Testing: Mouse |
| Storage Buffer: | Aqueous buffered solution containing ≤0.09% sodium azide. |

Description

The M5/114.15.2 antibody reacts with a polymorphic determinant shared by the I-A[b], I-A[d], I-A[q], I-E[d], and I-E[k] (but not I-A[f], I-A[k], or I-A[s]) MHC class II alloantigens. It also reacts with cells from mice of the H-2[p] and H-2[r] haplotypes, and it is non-reactive with cells from NOD (H-2[g7]) mice. Flow cytometric analysis indicates that the M5/114.15.2 and 2G9 (Cat. No. 553621) monoclonal antibodies have comparable reactivity on cells from mice with I-A[b], I-A[d], I-A[g7], I-A[q], I-E[d], and I-E[k] alloantigens.

Preparation and Storage

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

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.

Application Notes

Application

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| Flow cytometry | Routinely Tested |
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Suggested Companion Products

| Catalog Number | Name | Size | Clone |
|----------------|---------------------------------|--------|----------|
| 553989 | PE Rat IgG2b, κ Isotype Control | 0.1 mg | A95-1 |
| 553061 | FITC Hamster Anti-Mouse CD3e | 0.1 mg | 145-2C11 |
| 554656 | Stain Buffer (FBS) | 500 ml | (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. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome 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

Bhattacharya A, Dorf ME, Springer TA. A shared alloantigenic determinant on Ia antigens encoded by the I-A and I-E subregions: evidence for I region gene duplication. *J Immunol.* 1981; 127(6):2488-2495. (Immunogen)

Hattori M, Buse JB, Jackson RA, et al. The NOD mouse: recessive diabetogenic gene in the major histocompatibility complex. *Science.* 1986; 231(4739):733-735. (Clone-specific)

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