

Technical Data Sheet

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

Product Information

Material Number:	556999
Size:	0.5 mg
Concentration:	0.5 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 $\leq 0.09\%$ 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.

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.

Store undiluted at 4° C.

Application Notes

Application

Flow cytometry	Routinely Tested
Immunohistochemistry-frozen	Reported
Immunofluorescence	Reported
Immunoprecipitation	Reported
Intracellular staining (flow cytometry)	Reported
Blocking	Reported

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

- 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: Immunoprecipitation)
- Guo MW, Watanabe T, Mori E, Mori T. Molecular structure and function of CD4 on murine egg plasma membrane. *Zygote.* 1995; 3(1):65-73.(Clone-specific: Blocking)
- 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)
- Nelson AJ, Hosier S, Brady W, Linsley PS, Farr AG. Medullary thymic epithelium expresses a ligand for CTLA4 in situ and in vitro. *J Immunol.* 1998; 151(5):2453-2461.(Clone-specific: Immunofluorescence, Immunohistochemistry)
- Shi Y, Kaliyaperumal A, Lu L, et al. Promiscuous presentation and recognition of nucleosomal autoepitopes in lupus: role of autoimmune T cell receptor alpha chain. *J Exp Med.* 1998; 187(3):367-378.(Clone-specific: Blocking)
- Viville S, Neeffjes J, Lotteau V, et al. Mice lacking the MHC class II-associated invariant chain. *Cell.* 1993; 72(4):635-648.(Clone-specific: Flow cytometry, Immunofluorescence)
- Yamashita I, Nagata T, Tada T, Nakayama T. CD69 cell surface expression identifies developing thymocytes which audition for T cell antigen receptor-mediated positive selection. *Int Immunol.* 1993; 5(9):1139-1150.(Clone-specific: Blocking)

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit bdbiosciences.com/how_to_order/

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2006 BD



BD

BD Biosciences