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Mouse H-2Db Antibody

PE (R-phycoerythrin)

Hybridoma Monoclonal Antibody

Product Information

Product No.: B343

Clone: B22/249

Isotype: Mouse IgG2a k

Storage: Sterile 2° to 8°C

Product Description

Specificity:
B22.249.R1 activity is directed against mouse H-2Db

Antigen Distribution:
H-2Db is expressed on the cell surface of lymphocytes

Background:
H-2, the murine major histocompatibility complex (MHC), is composed of a diverse group of antigens divided into class I and II proteins that function in immune response[1]. H-2Db is a class I MHC cell surface protein. MHC class I molecules bind peptides generated by the degradation of cytosolic proteins, and then display those peptides on the cell surface. Generally, these peptides are derived from normal metabolism, but they can also be derived from foreign proteins during viral infection or allotransplantation. For example, H-2Db plays a role in human papillomavirus infection[2]. When peptides are recognized as foreign, cytotoxic T lymphocytes specific to the MHC class I-peptide complex kill the presenting cell[1].

B22-249.R1 was generated by immunizing mice with spleen cells from allogeneic mice using the combination BSLB/k anti-C57BL/6[3]. Spleen cells of the recipient mouse were hybridized with the P3-NS 1-Ag4 myeloma cell line and screened using cytotoxic and hemagglutination assays. B22-249.R1 is also known as H-2.m2 in the literature[4].

Known Reactivity Species:
Mouse

Format:
PE (R-phycoerythrin)

Immunogen:
Mouse H-2Db

Formulation
This R-phycoerythrin (R-PE) conjugate is formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.4, 1% BSA and 0.09% sodium azide as a preservative.

Storage and Stability
This R-phycoerythrin (R-PE) conjugate is stable when stored at 2° to 8°C

Do not freeze

Other Applications Reported in Literature:
FC

410 Axminister Dr, St. Louis, MO 63026 (800) 538-1145 leincoglobal@leinco.com

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Country of Origin
USA

References
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