

Monoclonal Anti-Porcine CD1, Clone 76-7-4 (produced *in vitro*)

Catalog No. NR-28538

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Contributor:

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Manufacturer:

BEI Resources

Product Description:

Antibody Class: IgG2ak

Mouse monoclonal antibody prepared against porcine CD1 was purified from clone 76-7-4 hybridoma supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of Sp2/0-Ag14 mouse myeloma cells with splenocytes from BALB/c mice that had been immunized with thymocytes from dd miniature swine.¹ Clone 76-7-4 was assigned to CD1 at the First International Swine CD Workshop.^{2,3}

Material Provided:

Each vial of NR-28538 contains approximately 100 µL of purified monoclonal antibody in PBS. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

NR-28538 was packaged aseptically in screw-capped plastic vials and is provided frozen on dry ice. NR-28538 should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:

NR-28538 reacts with peripheral B cells and 60% of thymocytes, but not with peripheral T cells.¹ The antibody is reported to be cytotoxic and to function in flow cytometry, immunohistochemistry, and immunoprecipitation assays.¹⁻³

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Porcine CD1, Clone 76-7-4 (produced *in vitro*), NR-28538."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in

Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

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References:

1. Pescovitz, M. D., et al., "Preparation and Characterization of Monoclonal Antibodies Reactive with Porcine PBL." J. Immunol. 133 (1984): 368-375. PubMed: 6609988.
2. Lunney, J. K., et al. "Overview of the First International Workshop to Define Swine Leukocyte Cluster of Differentiation (CD) Antigens." Vet. Immunol. Immunopathol. 43 (1994): 193-206. PubMed: 7856053.
3. Denham, S., et al. "Monoclonal Antibodies Recognising Differentiation Antigens on Porcine B Cells." Vet. Immunol. Immunopathol. 43 (1994): 259-267. PubMed: 7856057.

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