

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-28542

Monoclonal Anti-Porcine CD45, Clone 74-9-3 (produced *in vitro*)

Catalog No. NR-28542

This reagent is the tangible property of the U.S. Government.

For research use only. Not for human use.

Contributor:

Joan K. Lunney, Ph.D., Animal Parasitic Diseases Laboratory, Beltsville Agricultural Research Center, Agricultural Research Service, USDA, Beltsville, MD

Maunfacturer:

BEI Resources

Product Description:

Antibody Class: IgMk

Mouse monoclonal antibody prepared against porcine CD45 was purified from clone 74-9-3 hybridoma supernatant by mannan binding protein 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. Clone 74-9-3 was assigned to CD45 at the First International Swine CD Workshop.

Material Provided:

Each vial of NR-28542 contains approximately 100 μ L of purified monoclonal antibody in PBS. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

NR-28542 was packaged aseptically in screw-capped plastic vials and is provided frozen on dry ice. NR-28542 should be stored at -20°C or colder immediately upon arrival. Freezethaw cycles should be avoided.

Functional Activity:

NR-28542 is reported to be cytotoxic against all populations of swine leukocytes, to function in flow cytometry assays, to immunoprecipitate a high molecular weight complex of three polypeptide chains, and to react with all isoforms of porcine CD45. 1-6

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Porcine CD45, Clone 74-9-3 (produced *in vitro*), NR-28542."

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

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government make any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

- Pescovitz, M. D., et al., "Preparation and Characterization of Monoclonal Antibodies Reactive with Porcine PBL." J. Immunol. 133 (1984): 368-375. PubMed: 6609988.
- Lunney, J. K., et al. "Overview of the First International Workshop to Define Swine Leukocyte Cluster of Differentiation (CD) Antigens." <u>Vet. Immunol.</u> <u>Immunopathol.</u> 43 (1994): 193-206. PubMed: 7856053.
- Zuckermann, F. A., et al. "Analyses of Monoclonal Antibodies Reactive with Porcine CD44 and CD45." <u>Vet. Immunol. Immunopathol.</u> 43 (1994): 293-305. PubMed: 7531912.

BEI Resources

www.beiresources.org

E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898



Product Information Sheet for NR-28542

SUPPORTING INFECTIOUS DISEASE RESEARCH

- Zuckermann, F. A., et al. "Biochemical Analysis of Molecules Reactive with Monolconal Antibodies Specific for Porcine CD45." <u>Vet. Immunol. Immunopathol.</u> 43 (1994): 307-313. PubMed: 7531913.
- Zuckermann, F. A., et al. "Definition of the Specificity of Monoclonal Antibodies Against Porcine CD45 and CD45R: Report from the CD45/CD45R and CD44 Subgroup of the Second International Swine CD Workshop." <u>Vet. Immunol. Immunopathol.</u> 60 (1998): 367-387. PubMed: 9589574.
- Schnitzlein, W. M., and F. A. Zuckermann. "Determination of the Specificity of CD45 and CD45R Monoclonal Antibodies Through the Use of Transfected Hamster Cells Producing Individual Porcine CD45 Isoforms." <u>Vet. Immunol. Immunopathol.</u> 60 (1998): 389-401. PubMed: 9589575.

 $\mathsf{ATCC}^{\$}$ is a trademark of the American Type Culture Collection.



BEI Resources www.beiresources.org E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898