



CELL LAB Mouse Anti-Porcine CD1

<u>Cat. No.</u>	<u>Form</u>	<u>Quantity</u>
732767	Purified (UNLB) Antibody	0.5 mg
732768	Fluorescein (FITC) Conjugate	0.5 mg
732769	Biotin (BIOT) Conjugate	0.5 mg
732770	Phycoerythrin (PE) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone: 76-7-4
Isotype: Mouse (BALB/c) IgG2 α k
Specificity: Porcine CD1, Mr 43-49 kDa

Porcine CD1 is a type I transmembrane glycoprotein and a member of the immunoglobulin superfamily of cell surface receptors. It has a domain organization similar to that of MHC class I molecules and is expressed in association with β 2-microglobulin. CD1 is found on B cells, macrophages and immature thymocytes. There is evidence for a role of CD1 in presentation of lipids and peptides to T cells.¹⁻³

APPLICATIONS

- Flow cytometry¹
- Immunohistochemistry (acetone-fixed, frozen tissue sections)
- Immunoprecipitation¹⁻³

CHARACTERIZATION

To ensure lot-to-lot consistency, each batch of product is tested to conform with characteristics of a standard reference reagent using flow cytometry.

WORKING DILUTIONS

Flow Cytometry:

FITC conjugate	$\leq 1 \mu\text{g}/10^6$ cells
BIOT conjugate	$\leq 1 \mu\text{g}/10^6$ cells
PE conjugate	$\leq 0.2 \mu\text{g}/10^6$ cells

Other Applications: Since applications vary, determine the optimum working dilution of the product that is appropriate for your specific needs.

HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.0. No preservatives or amine-containing buffer salts added.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃.
- The phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent.

- Protect fluorochrome-conjugated forms from light. Do not freeze.
- Reagent is stable until the expiration date on the vial when stored at 2-8°C.

STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use reagent beyond the expiration date on the vial label.
4. Minimize exposure of reagent to light during storage or incubation.
5. Avoid microbial contamination of reagent or erroneous results may occur.
6. Use Good Laboratory Practice (GLP) when handling this reagent.
7. Harmful if swallowed.
8. After contact with skin, wash immediately with plenty of water.
9. Contains sodium azide. Sodium azide under acidic conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, immediately wash excessively with water.

TRADEMARKS

The Beckman Coulter logo is a trademark of Beckman Coulter, Inc.

For additional information or if damaged product is received, contact your local Beckman Coulter Representative.

REFERENCES

1. Denham S, Shimizu M, Bianchi AT, Zwart RJ, Carr MM and Parkhouse RM. 1994. Monoclonal antibodies recognizing differentiation antigens on porcine B cells. *Vet Immunol Immunopathol*, 43:259-267.
2. Saalmuller A. 1996. Characterization of swine leukocyte differentiation antigens. *Immunol Today*, 17:352-354.
3. Pescovitz MD, Lunney JK and Sachs DH. 1984. Preparation and characterization of monoclonal antibodies reactive with porcine PBL. *J Immunol*, 133:368-375.



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