



CELL LAB Mouse Anti-Porcine CD4a

Cat. No.	Form	Quantity
732780	Purified (UNLB) Antibody	0.5 mg
732781	Fluorescein (FITC) Conjugate	0.5 mg
732782	Biotin (BIOT) Conjugate	0.5 mg
732783	Phycoerythrin (PE) Conjugate	0.1 mg
732784	Spectral Red™ (SPRD) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone: 74-12-4
Isotype: Mouse (BALB/c) IgG2b κ
Specificity: Porcine CD4a, Mr 55 kDa

Porcine CD4 is a type I transmembrane glycoprotein and a member of the immunoglobulin superfamily of cell surface receptors. It has a pattern of expression similar to human CD4 and is not expressed on porcine CD8⁺ T cells. CD4 is an accessory molecule in the recognition of foreign antigens in association with MHC Class II molecules by T lymphocytes.¹⁻⁴

APPLICATIONS

- Flow cytometry¹⁻⁴
- Immunoprecipitation¹
- Cytotoxicity assays^{1,2}

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

Immunofluorescence:	FITC conjugate	≤1 $\mu\text{g}/10^6$ cells
	BIOT conjugate	≤1 $\mu\text{g}/10^6$ cells
	PE conjugate	≤0.2 $\mu\text{g}/10^6$ cells
	SPRD conjugate	≤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.
- The Spectral Red (SPRD) 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

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REFERENCES

1. Pescovitz MD, Lunney K, and Sachs DH. 1984. Preparation and characterization of monoclonal antibodies reactive with porcine PBL. *J Immunol*, 133:368-375.
2. Yamada K, Sachs DH, and DerSimonian H. 1995. Human anti-porcine xenogeneic T cell response. Evidence for allelic specificity of mixed leukocyte reaction and for both direct and indirect pathways of recognition. *J Immunol*, 155:5249-5256.
3. Smith CV, Sablinski T, Arn JS, Myers DE, Rosengard BR, Uckun FM and Sachs DH. 1994. In vivo treatment with monoclonal antibodies directed against CD4 and CD8 antigens in miniature swine. *J Immunother Emphasis Tumor Immunol*, 16:105-114.
4. Sundt TM, LeGuern C, Germana S, Smith CV, Nakajima K, Lunney JK and Sachs DH. 1992. Characterization of a polymorphism of CD4 in miniature swine. *J Immunol*, 148: 3195-3201.



Manufactured for:
Beckman Coulter, Inc.
4300 N. Harbor Blvd.
Fullerton, CA 92835
www.beckmancoulter.com

Printed in USA
Made in USA

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PN 734039-A