



CELL LAB Mouse Anti-Porcine CD21

<u>Cat. No.</u>	<u>Form</u>	<u>Quantity</u>
732794	Purified (UNLB) Antibody	0.5 mg
732795	Fluorescein (FITC) Conjugate	0.5 mg
732796	Biotin (BIOT) Conjugate	0.5 mg
732797	Phycoerythrin (PE) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone: BB6-11C9.6
Isotype: Mouse (BALB/c) IgG1 κ
Specificity: Porcine CD21, Mr 160 kDa

CD21, also known as complement receptor 2, is expressed on all mature circulating B lymphocytes but not on T lymphocytes or natural killer cells.¹ Low density CD21 has also been reported on granulocytes and monocytes. Monoclonal antibody BB6-11C9.6 stains the following percentages of surface immunoglobulin (sIg) positive cells in porcine lymphoid tissues: 92-96% in peripheral blood; 74-98% in mesenteric lymph nodes; 97-100% in ileal Peyer's patches (ILPP); 93-97% in spleen; and 0% in thymus.² The antibody does not stain B cells in cord blood or spleen from pig fetuses (105 days gestation).²

APPLICATIONS

- Flow cytometry²
- Immunohistochemistry (acetone-fixed, frozen tissue sections only)²
- Immunoprecipitation²

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. Tedder TF, Clement LT and Cooper MD. 1984. Expression of C3d receptors during human B cell differentiation: immunofluorescence analysis with the HB-5 monoclonal antibody. *J Immunol*, 133:678-683.
2. Denham S, Zwart RJ, Whittall JT, Pampusch M, Corteyn AH, Bianchi AT, Murtaugh MP, Parkhouse RM, Tlaskalova H, Sinkora J, Sinkora M and Rehakova Z. 1998. Monoclonal antibodies putatively identifying porcine B cells. *Vet Immunol Immunopathol*, 60:317-328.



Manufactured for:
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Printed in USA
Made in USA

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PN 734042-A