



## CELL LAB Rat Anti-Mouse CD86/B7-2

Cat. No.	Form	Quantity
732208	Purified (UNLB) Antibody	0.5 mg
732209	Fluorescein (FITC) Conjugate	0.5 mg
732210	Biotin (BIOT) Conjugate	0.5 mg
732211	Phycoerythrin (PE) Conjugate	0.1 mg
732312	Allophycocyanin (APC) Conjugate	0.1 mg

### For Laboratory Use Only

#### DESCRIPTION

**Clone:** GL1  
**Isotype:** Rat (Louvain) IgG2a $\kappa$   
**Immunogen:** LPS-activated mouse B cells<sup>1</sup>  
**Specificity:** Mouse CD86, the B7-2 co-stimulatory molecule and a ligand for CD28 and CD152/CTLA-4

CD86, also known as B7-2, is a type I transmembrane glycoprotein and a member of the immunoglobulin superfamily of cell surface receptors. It is expressed at high levels on resting peripheral monocytes and dendritic cells and at very low density on resting B and T lymphocytes.<sup>1-4</sup> CD86 expression is rapidly upregulated by B-cell specific stimuli with peak expression at 18-42 hours after stimulation.<sup>1</sup> CD86, along with CD80/B7-1, is an important accessory molecule in T cell co-stimulation via its interaction with CD28 and CD152/CTLA-4. Since CD86 has rapid kinetics of induction, it is believed to be the major CD28 ligand expressed early in the immune response.<sup>1-8</sup> Monoclonal antibody GL1 blocks mixed lymphocyte reactions and stimulation of T cells by antigen-presenting cells.<sup>1,3</sup>

#### APPLICATIONS

- Flow cytometry<sup>1-6</sup>
- Immunohistochemistry (acetone-fixed, frozen sections)<sup>5</sup>
- Immunoprecipitation<sup>1</sup>
- *In vitro* blocking assays<sup>1,3</sup>

#### 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	$\leq 0.1 \mu\text{g}/10^6$ cells
APC conjugate	$\leq 0.1 \mu\text{g}/10^6$ 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/NaN<sub>3</sub>.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>.
- The Phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent.
- The allophycocyanin (APC) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub> 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

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5. Laszlo G, Hathcock K, Dickler HB, and Hodes RJ. 1993. Characterization of a novel cell-surface molecule expressed on subpopulations of activated T and B cells. *J Immunol*, 150:5252-5262.
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