



CELL LAB Hamster Anti-Mouse CD152/CTLA-4

Cat. No.	Form	Quantity
732253	Purified (UNLB) Antibody	0.5 mg
732254	Fluorescein (FITC) Conjugate	0.5 mg
732255	Biotin (BIOT) Conjugate	0.5 mg
732256	Phycoerythrin (PE) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone: 1B8
Isotype: Armenian Hamster IgG
Specificity: Mouse CD152/CTLA-4

The lymphocyte surface antigen CD152, also known as CTLA-4, is related to the co-stimulatory molecule CD28, and both molecules share common B7 family counter-receptors.¹⁻⁴ However CD152 is thought to be a negative regulator of T cell activation¹⁻³ and may play a role in apoptotic control of T cells. CD152 exists as a 69 kDa homodimer,¹ and is relatively conserved among humans, mice and chickens.²

APPLICATIONS

- Flow cytometry^{1,2}
- Immunoprecipitation¹
- *In vitro* functional studies^{1,2}
- Enhancement of tumor immunity³

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	≤3 µg/10 ⁶ cells
BIOT conjugate	≤3 µg/10 ⁶ cells
PE conjugate	≤0.3 µg/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

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

REFERENCES

1. Walunas TL, Lenschow DJ, Bakker CY, Linsley PS, Freeman GJ, Green JM, Thompson CB and Bluestone JA. 1994. CTLA-4 can function as a negative regulator of T cell activation. *Immunity*, 1:405-413.
2. Perkins D, Wang Z, Donovan C, He H, Mark D, Guan G, Wang Y, Walunas T, Bluestone J, Listman J and Finn PW. 1996. Regulation of CTLA-4 expression during T cell activation. *J Immunol*, 156:4154-4159.
3. Leach DR, Krummel MF and Allison JP. 1996. Enhancement of antitumor immunity by CTLA-4 blockade. *Science*, 271:1734-1736.
4. Freeman GJ, Lombard DB, Gimmi CD, Brod SA, Lee K, Laning JC, Hafler DA, Dorf ME, Gray GS, and Reiser H. 1992. CTLA-4 and CD28 mRNA are coexpressed in most T cells after activation. Expression of CTLA-4 and CD28 mRNA does not correlate with the pattern of lymphokine production. *J Immunol*, 149:3795-3801.



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