



CELL LAB Hamster Anti-Mouse CD30

<u>Cat. No.</u>	<u>Form</u>	<u>Quantity</u>
732111	Purified (UNLB) Antibody	0.5 mg
732112	Fluorescein (FITC) Conjugate	0.5 mg
732113	Biotin (BIOT) Conjugate	0.5 mg
732114	Phycoerythrin (PE) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone: 2SH12-5F (also known as mCD30)
Isotype: Armenian Hamster IgG κ
Immunogen: Recombinant mouse CD30 extracellular domain-mouse IgG1 fusion protein¹
Specificity: Murine CD30, Mr 52 kDa (core peptide)

CD30 is a type I transmembrane protein and a member of the tumor necrosis factor receptor superfamily of proteins.^{1,2} Murine CD30 is expressed predominantly in the thymus, and it is inducible in mouse splenocytes stimulated with pokeweed mitogen or concanavalin A.¹ In anti-CD3 ϵ -activated spleen cells, CD30 is expressed primarily on the surface of CD8⁺ T cells with peak expression on days 4 and 5. Stimulation of CD30⁺ CTL lines with plate-bound anti-CD30 directly signals IL-5 but not IFN- γ production.¹ While these studies demonstrate that CD30 directs cytokine secretion and suggest that CD30 may play a pivotal role in the pattern of cytokine production by T cells, the precise roles of CD30 and its ligand (CD153) in T-cell development have not been clearly defined.

APPLICATIONS

- Flow cytometry¹
- *In vitro* functional studies¹

CHARACTERIZATION

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

WORKING DILUTIONS

Flow cytometry:

FITC conjugate	$\leq 3 \mu\text{g}/10^6$ cells
BIOT conjugate	$\leq 3 \mu\text{g}/10^6$ 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

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

REFERENCES

1. Bowen MA, Lee RK, Miragliotta G, Nam SY and Podack ER. 1996. Structure and expression of murine CD30 and its role in cytokine production. *J Immunol*, 156: 442-449.
2. Falini B, Pileri S, Pizzolo G, Durkop H, Flenghi L, Stirpe F, Martelli MF and Stein H. 1995. CD30 (Ki-1) molecule: a new cytokine receptor of the tumor necrosis factor receptor superfamily as a tool for diagnosis and immunotherapy. *Blood*, 85: 1-14.



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