

## Monoclonal Antibody to CD3 - FITC

<b>Alternate names:</b>	T-cell surface antigen T3/Leu-4, T-cell surface glycoprotein CD3, T3/Leu-4
<b>Catalog No.:</b>	AM08026FC-S
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	<p>CD3e, a member of the immunoglobulin superfamily of cell surface receptors, is comprised of five invariable chain ranging in size from 16-28 kDa and is closely associated with the T cell antigen receptor (TCR). It is expressed on all T cells of all mouse strains. (Ref.1,2) CD3 plays a major role in signaling during antigen recognition, leading to T-cell activation. The monoclonal antibody C363.29B recognizes an epitope on the 25kD epsilon chain of the CD3/TCR complex. (Ref.1) In the presence of Fc receptor-bearing accessory cells, soluble C363.29B can activate primed and naïve T cell in vitro. Immobilized C363.29 monoclonal antibody can also activate both normal T lymphocytes and cloned T cell lines provided the appropriate accessory signals are present. (Ref.1,3,4)</p> <p>The monoclonal antibody is cytolytic, easily used for cell surface staining and a good immunoprecipitating antibody. (Ref.1)</p>
<b>Uniprot ID:</b>	<a href="#">P22646</a>
<b>NCBI:</b>	<a href="#">NP_031674.1</a>
<b>GeneID:</b>	<a href="#">12501</a>
<b>Host / Isotype:</b>	Rat / IgG2b
<b>Clone:</b>	C363.29B (YCD3-1)
<b>Format:</b>	<p><b>State:</b> Liquid purified Ig fraction. <b>Buffer System:</b> PBS containing 0.09% Sodium Azide as preservative. <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1</p>
<b>Applications:</b>	<p><b>Flow Cytometry:</b> Identification and enumeration of CD3+ (<math>\leq 3 \mu\text{g}/10^6</math> cells). (Ref.1,2). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
<b>Specificity:</b>	<p>This antibody is specific to CD3e (Mr. 25 kD). <b>Species:</b> Mouse. Other species not tested.</p>
<b>Storage:</b>	<p>Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.</p>
<b>General Readings:</b>	1. Portoles, P., J. Rojo, A. Golby, M. Bonneville, S. Gromkowski, L. Greenbaum, C. A. Janeway, Jr., D. B. Murphy, and K. Bottomly. 1989. J.

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Immunol. 142:4169.

2. Dianzani, U., M. Luqman, J. Rojo, J. Yagi, J. L. Baron, A. Woods, C. A. Janeway, Jr., and K. Bottomly. 1990. Eur. J. Immunol. 20:2249.

3. Luqman, M., L. Greenbaum, D. Lu, and K. Bottomly. 1992. Eur. J. Immunol. 22:95.

4. Ernst, D. N., M. V. Hobbs, B. E. Torbett, A. L. Glasebrook, M. A. Rehse, K. Bottomly, K. Hayakawa, R. R. Hardy, and W. O. Weigle. 1990.

J. Immunol. 145:1295.

5. Payer, E., A. Elbe, and G. Stingl. 1991. J. Immunol. 146:2536.

**Pictures:**

**Immunofluorescent Staining:** Cells from BALB/c mesenteric lymph nodes were double-stained with anti-Mouse CD3ε-FITC and anti-Mouse CD45R/B220-R-PE (clone RA3-6B2), gated on small lymphocytes and analyzed using a FACScan(TM) flow cytometer (BDIS, San Jose, CA). Amount used: < / = 3 μg/10e6.

