

Monoclonal Antibody to CD3 - FITC

Alternate names:	T-cell surface antigen T3/Leu-4, T-cell surface glycoprotein CD3, T3/Leu-4
Catalog No.:	AM08026FC-N
Quantity:	0.5 mg
Concentration:	0.5 mg/ml
Background:	<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>
Uniprot ID:	P22646
NCBI:	NP_031674.1
GeneID:	12501
Host / Isotype:	Rat / IgG2b
Clone:	C363.29B (YCD3-1)
Format:	<p>State: Liquid purified Ig fraction.</p> <p>Buffer System: PBS containing 0.09% Sodium Azide as preservative.</p> <p>Label: FITC – Fluorescein Isothiocyanate Isomer 1</p>
Applications:	<p>Flow Cytometry: Identification and enumeration of CD3+ ($\leq 3 \mu\text{g}/10^6$ cells). (Ref.1,2). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Specificity:	<p>This antibody is specific to CD3e (Mr. 25 kD).</p> <p>Species: Mouse.</p> <p>Other species not tested.</p>
Storage:	<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.</p> <p>Avoid repeated freezing and thawing.</p> <p>Shelf life: one year from despatch.</p>
General Readings:	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.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com



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.

