

Monoclonal Antibody to CD28 - FITC

Alternate names:	T-cell-specific surface glycoprotein CD28, TP44
Catalog No.:	AM08038FC-N
Quantity:	0.5 mg
Concentration:	0.5 mg/ml
Background:	CD28 is a type I disulfide-linked homodimer that is constitutively expressed on most thymocytes, at low density on nearly all CD4+ and CD8+ peripheral T lymphocytes, and at very low levels on NK cells. Its expression is upregulated upon T-cell activation. (Ref.1-4) CD28 is a ligand for CD80/B7-1 and CD86/B7-2 on B cells and other antigen presenting cells, and plays an important role in the interaction between T cells and B cells. (Ref.5) CD28 is a co-stimulatory receptor involved in many, but not all, T-cell independent immune responses. (Ref.6-9)
Uniprot ID:	P31041
NCBI:	10090
Host / Isotype:	Hamster / IgG
Clone:	PV-1
Format:	State: Liquid purified Ig fraction. Buffer System: PBS containing 0.09% Sodium Azide as preservative. Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: < / = 3 µg/10e6 cells. (Ref.8-10) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody is specific to Murine CD28. Species: Mouse. Other species not tested.
Storage:	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.
General Readings:	1. Gross, J.A., E. Callas, and J.P. Allison. 1992. J. Immunol. 149:380. 2. Nandi, D., J.A. Gross, and J.P. Allison. 1994. J. Immunol. 152:3361. 3. June, C.H., J.A. Ledbetter, P.S. Linsley, and C.B. Thompson. 1990. Immunol. Today 11:211. 4. Giese, T., J.P. Allison, and W.F. Davidson. 1993. J. Immunol. 151:597. 5. Gelfanov, V., Y.G. Lai, V. Gelfanova, J.Y. Dong, J.P. Su, and N.S. Liao. 1995. J. Immunol. 155:76. 6. Harding, F.A., J.G. McArthur, J.A. Gross, D.H. Raulet, and J.P. Allison. 1992. Nature 356:607.

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



7. Clements, J.L., G. Winslow, C. Donahue, S.M. Cooper, J.P. Allison, and R.C. Budd. 1993. *Int. Immunol.* 5:1451.
8. Abe, R., P. Vandenberghe, N. Craighead, D.S. Smoot, K.P. Lee, and C.H. June. 1995. *J. Immunol.* 154:985.
9. Levine, B.L., Y. Ueda, N. Craighead, M.L. Huang, and C.H. June. 1995. *Int. Immunol.* 7:891.
10. Southern Biotechnology Associates, Inc. Unpublished observations.

Pictures:

Immunofluorescent Staining: A 50/50 mixture of the A20 B-cell lymphoma and the EL-4 T-cell lymphoma was stained with Hamster anti-Mouse CD28-FITC. Large cells were gated and analyzed by flow cytometry. Amount Used: 3 µg/10e6 cells.

