

Monoclonal Antibody to CD28 - PE

Alternate names:	T-cell-specific surface glycoprotein CD28, TP44
Catalog No.:	AM08037RP-N
Quantity:	0.2 mg
Concentration:	0.1 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. CD28 is a co-stimulatory receptor involved in many, but not all, T-cell independent immune responses. (Ref.5-8)
Uniprot ID:	P31041
NCBI:	10090
Host / Isotype:	Hamster / IgG
Clone:	37.51
Format:	State: Liquid purified Ig fraction. Buffer System: PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent. Label: PE – R-Phycoerythrin
Applications:	Flow Cytometry: < / = 0.2 µg/10e6 cells. (Ref.2-5) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody is specific to CD28 costimulatory receptor (Mr. 40 kDa) Species: Mouse. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE! 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. Giese, T., J. P. Allison, and W. F. Davidson. 1993. J. Immunol. 151:597. 3. Clements, J. L., G. Winslow, C. Donahue, S. M. Cooper, J. P. Allison, and R. C. Budd. 1993. Int. Immunol. 5:1451. 4. Nandi, D., J. A. Gross, and J. P. Allison. 1994. J. Immunol. 152:3361. 5. June, C.H., J.A. Bluestone, L.M. Nadler, and C.B. Thompson. 1992. Immunol. Today 15:321.

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



6. Gelfanov, V., Y. G. Lai, V. Gelfanova, J. Y. Dong, J. P. Su, and N. S. Liao. 1995. J. Immunol. 155:76.
7. Harding, F. A., J. G. McArthur, J. A. Gross, D. H. Raulet, and J. P. Allison. 1992. Nature 356:607.
8. Bluestone, J.A. 1995. Immunity 2:555.

Pictures:

Immunofluorescent Staining: BALB/c thymocytes were double-stained with Hamster anti-Mouse CD28-R-PE and hamster anti-Mouse CD3e-FITC. All cells were then gated and analyzed by two-color flow cytometry on a FACScan(TM) flow cytometer (BDIS, San Jose, CA). Amount Used: 0.3 µg/10e6 cells.

