

## Acris Antibodies, Inc.

6815 Flanders Drive, Suite 140 San Diego, CA 92121 UNITED STATES

Phone: +1-858-888-7900 Fax: +1-858-888-7904 US-info@acris-antibodies.com

## Acris Antibodies GmbH

Schillerstr. 5 32052 Herford GERMANY

AM08037RP-N

Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info@acris-antibodies.com

## 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: <u>P31041</u>
NCBI: <u>10090</u>

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:  $\langle \ \ | = 0.2 \, \mu g / 10e6 \, cells$ . (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.

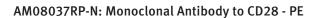
4. Nandi, D., J. A. Gross, and J. P. Allison. 1994. J. Immunol. 152:3361.

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.







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:**

Immunofluoscent 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 twocolor flow cytometry on a FACScan(TM) flow cytometer (BDIS, San Jose, CA). Amount Used: 0.3 µg/10e6 cells.

