

## Monoclonal Antibody to CD28 - FITC

<b>Alternate names:</b>	T-cell-specific surface glycoprotein CD28, TP44
<b>Catalog No.:</b>	AM08121FC-N
<b>Quantity:</b>	0.5 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	Chicken CD28 antigen is a type I transmembrane monomeric glycoprotein which does not contain the cysteine residues that form disulfide-linked covalent homodimers found in the mammalian counterpart. This may reduce the avidity of binding to individual ligand molecules expected to be present on Ag presenting cells. Peripheral gamma/delta+ T cells are CD28-negative. (Ref.1) Monoclonal antibodies against CD28 have a costimulatory effect on T cells stimulated by phorbol myristate acetate (PMA), concanavalin A or MAbs against the avian T cell receptor (TCR). Both Vbeta1- and Vbeta2-expressing cells respond equally well to stimulation with anti-CD28 in combination with PMA. These responses are resistant to cyclosporin A, but inhibited by herbimycin A, suggesting that CD28 employs a signalling pathway at least partly distinct from that triggered by TCR/CD3. (Ref.2)
<b>Uniprot ID:</b>	<a href="#">P31043</a>
<b>NCBI:</b>	<a href="#">NP_990642.1</a>
<b>GeneID:</b>	<a href="#">396249</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	AV7
<b>Format:</b>	<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
<b>Applications:</b>	<b>Flow Cytometry:</b> < / = 1 µg/10e6 cells. (Ref.1) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognizes Chicken CD28, a monomeric molecule of Mr 40-44 kDa with 50% amino acid sequence identity with mammalian CD28. <b>Species:</b> Chicken and Turkey. Other species not tested.
<b>Storage:</b>	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.
<b>General Readings:</b>	1. Young, J.R., T.F. Davison, C.A. Tregaskes, M.C. Rennie, and O. Vainio. 1994. J. Immunol. 152:3848.

**For research and in vitro use only. Not for diagnostic or therapeutic work.**  
Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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



2. Arstila, T.P., O. Vainio, and O. Lassila. 1994. Scand J. Immunol. 40:368.

**Pictures:**

**Immunofluorescent Staining:** Chicken peripheral blood mononuclear cells were double stained with Mouse anti-Chicken CD28-FITC and Mouse anti-Chicken CD3-PE. Small lymphocytes were then gated and analyzed on a FACScan(TM) flow cytometer (BDIS, San Jose, CA). Amount Used: 1 µg/10e6 cells.

