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AM08117FC-N

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# Monoclonal Antibody to T Cell Receptor (TCR) gamma/delta - FITC

Alternate names: T-Cell Receptor delta, T-Cell Receptor gamma, T-Cell Receptor gamma delta, T-cell receptor

T3 gamma/delta, T-cell surface glycoprotein CD3 gamma/delta, TCRD, TCRG

Catalog No.: AM08117FC-N

Quantity: 0.5 mg
Concentration: 0.5 mg/ml

Background: T cell receptors (TCR) recognize foreign antigens which have been processed as small peptides and bound to major histocompatibility complex (MHC) molecules at the surface of

antigen presenting cells (APC). Each T cell receptor is a dimer consisting of one alpha and one beta chain or one delta and one gamma chain. Unlike human and mouse, in which gamma/delta cells comprise a minor subset of T lymphocytes in the circulation, the chicken has a relatively large subset of gamma/delta T cells. The frequency of TCR gamma/delta cells is usually 20-25% of the total blood T cells, but may reach

approximately 50% in chickens of 6 months of age. The majority of TCRgamma/delta+ cells in the thymus and blood are CD4-CD8-, although a small subset of them may express CD8 or CD4 coreceptors. However, when the TCRgamma/delta+ cells migrate into the spleen and intestine, most of them begin to express CD8. Although the biological function of gamma/delta T cells is unclear, they are clearly capable of cytotoxic activity in vitro. The CD8+ gamma/delta T cells may also be involved in down-regulation of the immune

response. They cannot, however, induce a graft-vs-host (GVH) reactions.

Host / Isotype: Mouse / IgG1

Clone: TCR1

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:  $\langle / = 1 \mu g/10e6 \text{ cells.}$  (Ref.1-3)

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

**Specificity:** This antibody recognizes TCR gamma/delta.

It precipitates a heterodimer of Mr 90-kDa (two bands of Mr 40-kDa and 50-kDa upon

reduction) on Chicken peripheral blood T cells. (Ref.1,2)

Deglycosylation of the heterodimer yields two polypeptides of Mr 35-kDa and 32-kDa from

TCR1 precipitates.

Species: Chicken.

Other species not tested.

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





## AM08117FC-N: Monoclonal Antibody to T Cell Receptor (TCR) gamma/delta - FITC

#### **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. Sowder, J.T., C.-L. Chen, L.L. Ager, M.M. Chan, and M.D. Cooper. 1988. J. Exp. Med.

167:315.

2. Chen, C.H., J. Cihak, U. Lösch, and M.D. Cooper. 1988. Eur. J. Immunol. 18:539

3. Quere, P., M.D. Cooper, and G.J. Thorbecke. 1990. Immunology 71:517.

4. Chen, C.H., T.W.F. Göbel, T. Kubota, and M.D. Cooper. 1993. 1994. Poultry Science 73:1012.

5. Chen, C.-L. 1996. Personal communication.

6. Sowder, J.T., C.H. Chen, L.L. Ager, J. Cihak, U. Lösch, and M.D. Cooper. 1988b. Fed. Proc.

2:874.

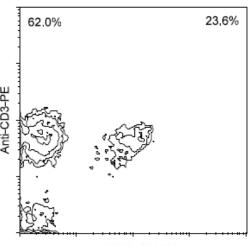
7. Cihak, J., U. Lösch, G. Hoffman-Hezer, C.H. Chen, M.D. Cooper, and H.W.L. Ziegler-Heitbrock. 1993. Scand. J. Immunol. 38:123.

#### **Pictures:**

Immunofluorescent Staining: Chicken PBMC were double stained with Mouse anti-Chicken TCR gamma/delta-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:  $1 \mu g/10e6$  cells.



Anti-TCRγδ-FITC

