

Monoclonal Antibody to T Cell Receptor / TCR gamma/delta - PE

- Alternate names:** T-Cell Receptor delta, T-Cell Receptor gamma, T-Cell Receptor gamma delta, TCR delta, TCR gamma, TCRD, TCRG
- Catalog No.:** AM08117RP-N
- Quantity:** 0.1 mg
- Concentration:** 0.1 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.ociates with CD3 and is expressed on a T cell subset found in the thymus, the intestinal epithelium, and the peripheral lymphoid tissues and peritoneum. Most gamma/delta T cells are CD4-/CD8-, some are CD8+. T cells expressing the gamma/delta TCR have been shown to play a role in oral tolerance, tumor-associated tolerance, and autoimmune disease.
- Host / Isotype:** Mouse / IgG1
- Clone:** TCR1
- 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.1-3)
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

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

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.

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. 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.

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