

## Product datasheet for **AM08117RP-N**

### T Cell Receptor / TCR gamma/delta Mouse Monoclonal Antibody [Clone ID: TCR1]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	TCR1
Applications:	FC
Recommended Dilution:	<b>Flow Cytometry:</b> < / = 0.2 µg/10e6 cells. (Ref.1-3)
Reactivity:	Chicken
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
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.
Formulation:	PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent. Label: PE State: Liquid purified Ig fraction. Label: R-Phycoerythrin
Concentration:	lot specific
Conjugation:	PE
Storage:	Store the antibody undiluted at 2-8°C. <b>DO NOT FREEZE!</b> This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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**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) reaction. Associates 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.

**Synonyms:**

T-Cell Receptor delta, T-Cell Receptor gamma, T-Cell Receptor gamma delta, TCRD, TCRG, TCR gamma, TCR delta