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Product datasheet for AM08117PU-N

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	TCR1
Applications:	FC, FN, IHC, IP
Recommended Dilution:	**Flow Cytometry.** (Ref.1-3) **Immunohistochemistry** (Acetone-Fixed, Frozen Tissue Sections). (Ref.5) **Immunoprecipitation.** (Ref.1-3) ***In ovo* depletion of gamma delta T cells.** (Ref.6,7)
Reactivity:	Chicken
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Outbred chicken thymocytes and Ig-negative blood lymphocytes.
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:	100 mM Borate Buffered Saline, pH 8.2. No preservatives or amine-containing buffer salts added. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. 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) reactions.

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

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