

Product datasheet for **AM08114BT-N**

CD3 Mouse Monoclonal Antibody [Clone ID: CT-3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	CT-3
Applications:	FC
Recommended Dilution:	Flow Cytometry: $\leq 1 \mu\text{g}/10^6$ cells. (Ref.1)
Reactivity:	Chicken
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	Specific to Chicken CD3. This antibody recognizes a complex of at least three polypeptides of Mr 20-, 19-, and 17-kDa (two of which are N-glycosylated) on Chicken T cells. It also coprecipitates a polypeptide of 90-kDa from digitonin solubilized T cell lysates, which can be reduced to two polypeptides of Mr 50- and 40-kDa. (Ref.1)
Formulation:	PBS containing 0.09% Sodium Azide as preservative. Label: Biotin State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Biotin
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.
Stability:	Shelf life: one year from despatch.
Database Link:	Q98910



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Background:

T cell activation through the antigen receptor (TCR) involves the cytoplasmic tails of the CD3 subunits: CD3 gamma, CD3 delta, CD3 epsilon and CD3 zeta. These CD3 subunits are structurally related members of the immunoglobulins super family encoded by closely linked genes on human chromosome 11. The CD3 components have long cytoplasmic tails that associate with cytoplasmic signal transduction molecules. This association is mediated at least in part by a double tyrosine based motif present in a single copy in the CD3 subunits. CD3 may play a role in TCR induced growth arrest, cell survival and proliferation. The CD3 antigen is present on 68-82% of normal peripheral blood lymphocytes, 65-85% of thymocytes and Purkinje cells in the cerebellum. It is never expressed on B or NK cells. Decreased percentages of T lymphocytes may be observed in some autoimmune diseases.

Synonyms:

T3/Leu-4