

Product datasheet for **AM09234PU-N**

CD3E Mouse Monoclonal Antibody [Clone ID: JXT3]

Product data:

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| Product Type: | Primary Antibodies |
| Clone Name: | JXT3 |
| Applications: | ELISA, IF |
| Recommended Dilution: | ELISA. Immunofluorescence. |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG2a |
| Clonality: | Monoclonal |
| Immunogen: | Human peripheral T lymphocytes. |
| Specificity: | This antibody recognizes Human peripheral blood T cell CD3 antigen. |
| Formulation: | 0.01M PBS, pH 7.0 without preservatives. State: Aff - Purified State: Lyophilized purified Ig fraction. |
| Reconstitution Method: | Restore with Double distilled water to adjust the final concentration to 1.0 mg/ml. |
| Purification: | Affinity Chromatography on Protein G. |
| Conjugation: | Unconjugated |
| Storage: | Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Gene Name: | CD3e molecule |
| Database Link: | Entrez Gene 916 Human P07766 |



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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 |
| Protein Families: | Druggable Genome, Transmembrane |
| Protein Pathways: | Hematopoietic cell lineage, Primary immunodeficiency, T cell receptor signaling pathway |