

# Product datasheet for AM12063LE-N

## CD3E Mouse Monoclonal Antibody [Clone ID: OKT3]

### **Product data:**

#### **Product Type: Primary Antibodies Clone Name:** OKT3 **Applications:** FC, FN, IHC Flow Cytometry: 1 µg/ml. Recommended Dilution: Immunohistochemistry on Frozen Sections. Functional Studies: counteracting both generation and function of effector T cells. **Reactivity:** Human Host: Mouse Isotype: lgG2a Monoclonal **Clonality:** Immunogen: Proprietary information Specificity: The antibody recognizes the CD3 antigen of the TCR/CD3 complex on mature Human T cells. This antibody, also known as Orthoclone OKT3 or Muromonab-CD3, has been extensively used as a drug for therapy of acute, glucocorticoid resistant rejection of allogenic renal, heart and liver transplants. It has also been investigated for use in treating T-cell acute lymphoblastic leukemia. Formulation: Azide free PBS, pH~7.4 Product is 0.2 µm filter sterilized. State: Low Endotoxin State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: None **Concentration:** lot specific **Purification:** Affinity Chromatography on Protein A **Conjugation:** Unconjugated Storage: Store undiluted at 2-8°C. **DO NOT FREEZE!** Stability: Shelf life: one year from despatch. Gene Name: CD3e molecule



View online »

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

|                  | CD3E Mouse Monoclonal Antibody [Clone ID: OKT3] – AM12063LE-N   |
|------------------|---|
| Database Link:   | Entrez Gene 916 Human<br>P07766   |
| Background:      | CD3 complex is crucial in transducing antigen-recognition signals into the cytoplasm of T cells<br>and in regulating the cell surface expression of the TCR complex. T cell activation through the<br>antigen receptor (TCR) involves the cytoplasmic tails of the CD3 subunits CD3 gamma, CD3<br>delta, CD3 epsilon and CD3 zeta. These CD3 subunits are structurally related members of the<br>immunoglobulins super family encoded by closely linked genes on human chromosome 11.<br>The CD3 components have long cytoplasmic tails that associate with cytoplasmic signal<br>transduction molecules. This association is mediated at least in part by a double tyrosine-<br>based motif present in a single copy in the CD3 subunits. CD3 may play a role in TCR-induced<br>growth arrest, cell survival and proliferation.<br>The CD3 antigen is present on 68-82% of normal peripheral blood lymphocytes, 65-85% of<br>thymocytes and Purkinje cells in the cerebellum. It is never expressed on B or NK cells.<br>Decreased percentages of T lymphocytes may be observed in some autoimmune diseases. |
| Synonyms:        | T3/Leu-4  |
| Protein Families | : Druggable Genome, Transmembrane   |
| Protein Pathway  | <i>is:</i> Hematopoietic cell lineage, Primary immunodeficiency, T cell receptor signaling pathway  |

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US