

**Anti-CD3 Reference Antibody (Muromonab)  
Recombinant Antibody  
Catalog # APR10407****Specification**

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**Anti-CD3 Reference Antibody (Muromonab) - Product Information**

Application	FC, E, FTA
Primary Accession	<a href="#">P07766</a>
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	mIgG2
Calculated MW	146.34 KDa

**Anti-CD3 Reference Antibody (Muromonab) - Additional Information****Target/Specificity**  
CD3**Endotoxin**  
< 0.001EU/ µg,determined by LAL method.**Conjugation**  
Unconjugated**Expression system**  
CHO Cell**Format**  
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.**Storage**  
-80°C for 2 years under sterile conditions □ -20°C for 1 year under sterile conditions □ Avoid repeated freeze-thaw cycles.**Anti-CD3 Reference Antibody (Muromonab) - Protein Information****Name** CD3E**Synonyms** T3E**Function**  
Part of the TCR-CD3 complex present on T-lymphocyte cell surface that plays an essential role in adaptive immune response. When antigen presenting cells (APCs) activate T-cell receptor (TCR), TCR- mediated signals are transmitted across the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD3Z. All CD3 chains contain immunoreceptor tyrosine-based activation motifs (ITAMs) in their cytoplasmic domain. Upon TCR engagement, these motifs become phosphorylated by Src family protein tyrosine kinases LCK and FYN, resulting in the activation of downstream signaling

pathways (PubMed:<a href="http://www.uniprot.org/citations/2470098" target="\_blank">2470098</a>). In addition of this role of signal transduction in T-cell activation, CD3E plays an essential role in correct T-cell development. Initiates the TCR-CD3 complex assembly by forming the two heterodimers CD3D/CD3E and CD3G/CD3E. Participates also in internalization and cell surface down- regulation of TCR-CD3 complexes via endocytosis sequences present in CD3E cytosolic region (PubMed:<a href="http://www.uniprot.org/citations/10384095" target="\_blank">10384095</a>, PubMed:<a href="http://www.uniprot.org/citations/26507128" target="\_blank">26507128</a>).

**Cellular Location**

Cell membrane; Single-pass type I membrane protein

**Anti-CD3 Reference Antibody (Muromonab) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-CD3 Reference Antibody (Muromonab) - Images**