

AM50355PU-N**Monoclonal Antibody to CD3 - Purified**

Alternate names:	T-cell surface antigen T3/Leu-4, T-cell surface glycoprotein CD3, T3/Leu-4
Quantity:	0.1 ml
Concentration:	1.0 mg/ml
Background:	The T cell antigen receptor (TCR) recognizes foreign antigens and translates such recognition events into intracellular signals that elicit a change in the cell from a dormant to an activated state. Much of this signaling process can be attributed to a multi subunit complex of proteins that associates directly with the TCR. This complex has been designated CD3 (cluster of differentiation 3). It is composed of five invariant polypeptide chains that associate to form three dimers. The epsilon polypeptide plays an essential role in T-cell development. Defects in this gene cause immunodeficiency. This gene has also been linked to a susceptibility to type I diabetes in women.
Uniprot ID:	P07766
NCBI:	NP_000724
GeneID:	916
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	AT3H3
Immunogen:	Recombinant human CD3E (23-126aa) purified from E. coli.
Format:	State: Liquid purified Ig fraction Purification: Protein-A affinity chromatography Buffer System: PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol
Applications:	The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended starting dilution is 1:1000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Species: Human. Other species not tested.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Gold DP., et al. (1986) Nature 321(6068): 431-434 Soudais C., et al. (1993) Nat Genet 3(1):77-81.

Pictures:

Fig. 1: The extract of Jurkat (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CD3E antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Fig. 2: The Human Recombinant protein CD3E(200, 100, 50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CD3E antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

