

Product datasheet for **AM26756PU-N**

Cd247 Tyr153 Mouse Monoclonal Antibody [Clone ID: EM-17]

Product data:

Product Type:	Primary Antibodies
Clone Name:	EM-17
Applications:	FC, WB
Recommended Dilution:	Flow cytometry: 2-10 µg/ml. <i>Positive control:</i> Jurkat cells treated with pervanadate. Western blot: 2-5 µg/ml (non-reducing conditions). <i>Positive control:</i> Jurkat cells lysate treated with pervanadate; Splenocyte lysate of Balb/c or F1 mouse treated with pervanadate.
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	A phospho specific peptide corresponding to the amino acids surrounding tyrosine 153 of mouse CD3 zeta linked to KLH
Specificity:	This antibody recognizes phosphorylated tyrosine 153 of CD3 zeta chain (CD247), which is a component of TCR/CD3 complex expressed on T cells.
Formulation:	Phosphate buffered saline (PBS) State: Purified State: Liquid Ig fraction Preservative: 15 mM sodium azide, approx. pH 7.4
Concentration:	lot specific
Purification:	Protein-A affinity chromatography (> 95% pure by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	CD247 antigen
Database Link:	Entrez Gene 12503 Mouse P24161



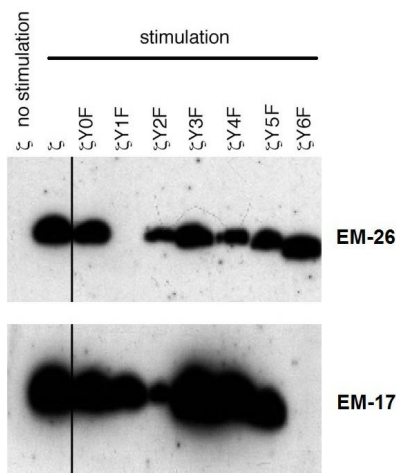
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Background:

CD3 complex is crucial in transducing antigen-recognition signals into the cytoplasm of T cells and in regulating the cell surface expression of the TCR complex. 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 (CD247). 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.

Synonyms:

T3Z, TCRZ, CD3 zeta chain

Product images:


Reactivity of the monoclonal antibodies EM-26 (anti-CD3 zeta phospho-Tyr72) and EM-17 (anti-CD3 zeta phospho-Tyr153) with phosphorylated particular human CD3 zeta mutants. The Y1F and Y6F mutants lack phosphotyrosine 72 and 153, respectively.