PRODUCT DATA SHEET

11-686-C025

Monoclonal Antibody to CD3 zeta (Phospho-Tyr153) Purified Antibody (0.025 mg)

Clone:	EM-17
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody EM-17 recognizes phosphorylated tyrosine 153 of CD3 zeta chain (CD247), which is a component of TCR/CD3 complex expressed on T cells.
Regulatory Status:	RUO
Immunogen:	A phospho specific peptide corresponding to the amino acids surrounding tyrosine 153 of mouse CD3 zeta linked to KLH
Species Reactivity:	Human, Mouse
Application:	Flow Cytometry Recommended dilution: 2 - 10 µg/ml Positive control: Jurkat cells treated with pervanadate Western Blotting Recommended dilution: 2 - 5 µg/ml Positive control: Jurkat cells lysate treated with pervanadate; Splenocyte lysate of Balb/c or F1 mouse treated with pervanadate Application note: Non-reducing conditions recommended
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8ºC. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
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.
References:	Unpublished.

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