

Product datasheet for **AM12004FC-L**

Cd247 Hamster Monoclonal Antibody [Clone ID: H146-968]

Product data:

Product Type:	Primary Antibodies
Clone Name:	H146-968
Applications:	FC, IF
Recommended Dilution:	This clone (H146-968) has been reported to work in Flow Cytometry (in permeabilized cells), Western Blotting and ELISA.
Reactivity:	Human, Mouse
Host:	Hamster
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Synthetic peptide KLH conjugated corresponding to amino acids 151-164 of Mouse CD3 zeta
Specificity:	This antibody detects the zeta subunit of the T cell receptor (TCR).
Formulation:	PBS containing 0.02% Sodium Azide as preservative and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. Label: FITC State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Protein G Affinity Chromatography.
Conjugation:	FITC
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD247 antigen
Database Link:	Entrez Gene 919 Human Entrez Gene 12503 Mouse P24161



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Background:

The TCR complex consists of a ligand specific alpha/beta heterodimer non-covalently associated with five invariant chains including the CD3 gamma, delta, eta and zeta subunits. This complex regulates assembly and expression of the receptor and is thought to be responsible for transmembrane transduction of signals after binding to TCR $\alpha\beta$. Studies have suggested that the CD3z subunit (also know as CD247) plays an important role in two distinct cellular compartments. In the cytoplasm, it may function to regulate Ag receptor expression and in the plasma membrane it may be required for optimal signaling by the physiologic ligand Ag/MHC. The CD3z subunit is also associated with the CD16 IgG Fc receptor on NK cells.

Synonyms:

T3Z, TCRZ, CD3 zeta chain