

Anti-CD3 zeta/CD247 Antibody-PE (4V394)

Product Details

Ig Type:	Mouse IgG2a
Reactivity:	Human
Conjugation:	PE
Clone:	4V394
Purification:	Protein A

Applications

Verified Activity:	Flow cytometric analysis of Human CD3 Zeta expression on human whole blood lymphocytes. The cells were treated according to manufacturer's manual (BD Pharmingen™ Cat. No. 554714), stained with PE-conjugated anti-Human CD3 Zeta and FITC-conjugated anti-Human CD3. The dot plots were derived from gated events with the forward and side light-scatter characteristics of viable lymphocytes.
Application:	FCM
Recommended	5 µl/Test, 0.1 mg/ml

Properties

Stability & Storage:	Store at 2°C-8°C for 12 months, do not freeze. Keep away from direct sunlight.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human CD3 zeta / CD247 Protein (TMPY-02960)
Antigen Species:	Human
Synonyms:	IMD25;TCRZ;CD3Z;CD3-ZETA;CD3-ζ;CD247 molecule;CD3 ζ/CD247;CD3H;T3Z;CD3Q

Research Background

CD247, also known as CD3-ZETA, belongs to the CD3Z/FCER1G family. It contains 3 ITAM domains. As a -cell receptor zeta, CD247 forms the T-cell receptor-CD3 complex together with T-cell receptor alpha/beta and gamma/delta heterodimers, and with CD3-gamma, -delta and -epsilon. The zeta chain plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. Low expression of the antigen results in impaired immune response. Two alternatively spliced transcript variants encoding distinct isoforms have been found for CD247 gene. Defects in CD247 can cause immunodeficiency due to defect in CD3-zeta. An immunological deficiency characterized by T-cells impaired immune response to alloantigens, tetanus toxoid and mitogens. CD247 may play a role in assembly and expression of the TCR complex as well as signal transduction upon antigen triggering.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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