Datasheet for ABIN1177044

anti-CD247 antibody (pTyr142) (PE)

1 Image | 1 Publication

Go to Product page

Overview

Quantity:	50 tests
Target:	CD247
Binding Specificity:	pTyr142
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD247 antibody is conjugated to PE
Application:	Intracellular Staining (ICS)

Product Details

Brand:	BD Phosflow™
Immunogen:	Phosphorylated Human CD3zeta Peptide
Clone:	K25-407-69
Isotype:	IgG2a kappa
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	CD247
Alternative Name:	CD247 (CD3z) (CD247 Products)

Target Details

Background:	The T cell receptor (TCR), expressed by thymocytes and T lymphocytes, is a multi-component cell-surface complex responsible for recognizing antigen in the context of MHC molecules. The antigen-specific binding component of the TCR, Ti, is a heterodimer of the variable Ig-like subunits a and b or g and d. Ti is non-covalently associated with an invariant set of molecules referred to as the CD3 polypeptides, g, d, e, and zeta. The CD3 z polypeptide (CD3z) was named CD247 at the 7th Human Leukocyte Differentiation Antigens Workshop. CD3 appears early in thymocyte differentiation and remains expressed on all mature T lymphocytes. After antigen recognition by the TCR, CD3z is the primary intracellular signal transducing subunit. It contains three ITAMs (Immunoreceptor Tyrosine-based Activation Motifs), each of which contains a pair of tyrosine residues that are phosphorylated by Lck and Fyn and are required for signal propagation. The molecular weight of CD3z is 16 kDa, and it is also observed as 32-kDa homodimers or as heterodimers with the g chain of Fc receptors. Upon phosphorylation, the CD3z monomer undergoes an apparent shift in electrophoretic mobility up to 21 kDa. The K25-407.69 monoclonal antibody recognizes the phosphorylated tyrosine 142 (pY142) in the third ITAM domain of human CD3z (CD247). Synonyms: CD3zeta
Pathways:	TCR Signaling, CXCR4-mediated Signaling Events, Ubiquitin Proteasome Pathway

Application Details

Sample Volume:	20 µL
Restrictions:	For Research Use only

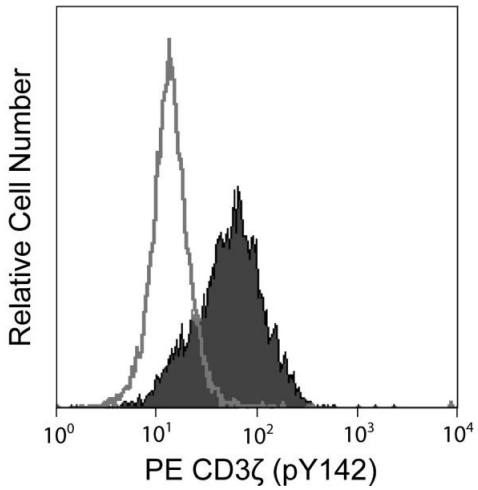
Handling

Format:	Liquid
Buffer:	Aqueous buffered solution containing BSA and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze. The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Publications

Product cited in:	Alberola-Ila, Takaki, Kerner, Perlmutter: "Differential signaling by lymphocyte antigen receptors." in: **Annual review of immunology**, Vol. 15, pp. 125-54, (1997) (PubMed).

Images



Flow Cytometry

Image 1.