

Datasheet for ABIN967305

anti-CD247 antibody[Go to Product page](#)**1** Image**1** Publication

Overview

Quantity:	150 µg
Target:	CD247
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD247 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Brand:	BD Pharmingen™
Immunogen:	Human CD3zeta synthetic peptide
Clone:	8D3
Isotype:	IgG1
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	CD247
Alternative Name:	CD247 (CD247 Products)
Background:	The T-cell receptor (TCR), expressed by thymus-derived lymphocytes, is a multi-component complex responsible for recognizing antigen in the context of MHC molecules. Ti is the antigen-specific binding component of the TCR. On the majority of peripheral T lymphocytes Ti is present as a disulfide-linked alpha-beta heterodimer. A minor fraction express Ti as a gamma-delta heterodimer. The Ti subunits are Ig-like, each containing V and C regions. Ti is noncovalently associated with an invariant set of molecules referred to as the CD3 subunits. CD3 appears early in thymocyte differentiation and remains expressed on all mature T lymphocytes. In the mouse, it consists of five chains, gamma (gamma), delta (delta), epsilon (epsilon), zeta (zeta), and p21. The relative masses of the mouse CD3 chains are 21, 28, 26, 32 (dimer), and 21 kDa respectively. The 8D3 antibody recognizes the zeta chain of the human and mouse T cell antigen receptor-associated CD3 complex. It reacts with 16 kDa unphosphorylated monomers and 32 kDa unphosphorylated dimers. It does not appear to recognize 21 kDa phosphorylated monomers or 42 kDa phosphorylated dimers. A synthetic peptide corresponding to a region of human CD3zeta was used as immunogen. Synonyms: CD3zeta chain
Pathways:	TCR Signaling , CXCR4-mediated Signaling Events , Ubiquitin Proteasome Pathway

Application Details

Application Notes:	Jurkat control lysate [50 µg (1 µg/µl)] is provided as a Western blot positive control (Comp. 51-16526N, store lysate at -20°C). Additional control lysate (ABIN968537) is sold separately as a ready-to-use western blot control.
Comment:	Related Products: ABIN968537, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store undiluted at -20°C.

Publications

Product cited in: Hussey, Clayton, Diener, McConkey, Howard, Rodewald, DAdamio, Dallenbach, Stein, Schmidt: "Overexpression of CD3 eta during thymic development does not alter the negative selection process." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 150, Issue 4, pp. 1183-94, (1993) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of CD3zeta. Lysate from Jurkat cells was probed with anti-CD3zeta (clone 8D3) at concentrations of 0.5 (lane 1), 0.25 (lane 2), and 0.125 myg/ml (lane 3). CD3zeta is identified as a band of 16 kDa.