

Technical Data Sheet

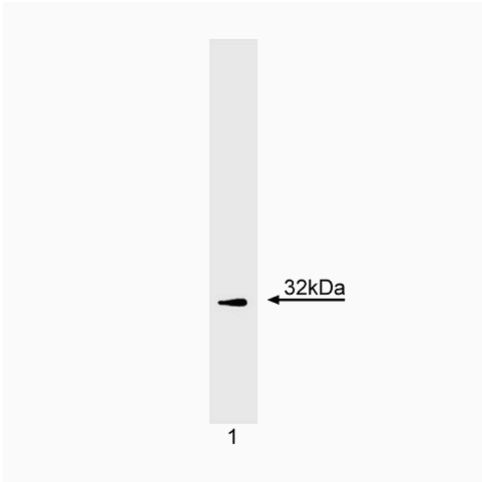
Purified Mouse Anti-Mouse CD247

Product Information

Material Number:	554241
Alternate Name:	CD3ζ chain
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	1ζ3A1
Immunogen:	Mouse CD3ζ C-terminus synthetic peptide
Isotype:	Mouse IgG2b
Reactivity:	QC Testing: Mouse
Target MW:	32 kDa
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The T-cell receptor (TCR), expressed by thymus-derived lymphocytes, is a multicomponent 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 α-β heterodimer. A minor fraction express Ti as a γ-δ 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: γ, δ, ε, ζ, and η. The relative masses of the mouse CD3 chains are 21, 28, 26, 32, (dimer) and 21 kDa, respectively. Clone 1ζ3A1 recognizes an epitope in the C-terminus of mouse CD3ζ. A synthetic peptide corresponding to the C-terminus of mouse CD3ζ (BSACDTYDALHMQTLAPR) was used as immunogen. Hybridomas were derived from Balb/c spleen cells x NS-1.



Western blot analysis of CD3ζ. Lysate from mouse thymus was probed with CD3ζ (clone 1ζ3A1 antibody, Cat. No. 554241). CD3ζ is identified as ~32 kDa.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4°C.

Application Notes

Application

Western blot	Routinely Tested
Immunoprecipitation	Tested During Development

Recommended Assay Procedure:

Applications include western blot analysis (1-2 µg/ml) and immunoprecipitation (1-2 µg/1x10 [6] cells). Immunoprecipitation application is not routinely tested, only tested during development.

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols 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.

References

Hussey RE, Clayton LK, Diener A, et al. Overexpression of CD3 eta during thymic development does not alter the negative selection process. *J Immunol.* 1993; 150(4):1183-1194.(Immunogen: Immunoprecipitation, Western blot)