

CD3z Monoclonal Antibody (6B10)

Catalog Number13-7700

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse
Host/Isotope	Mouse / IgG1, kappa	Published species	Mouse, Human, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	ELISA (ELISA)	Dilution *0.1-1.0 µg/mL
Clone	6B10	Immunoprecipitation (IP)	5 µg
Immunogen	A synthetic peptide corresponding to the cytoplasmic domain of the human T Cell Receptor zeta chain coupled to a protein carrier.	Western Blot (WB)	1-3 µg/mL
		Published Applications	
Conjugate	Unconjugated	Immunoprecipitation (IP)	See 2 publications below
Form	Liquid	Western Blot (WB)	See 2 publications below
Storage Conditions	-20°C	Miscellaneous PubMed (Misc)	See 1 publications below

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Background/Target Information

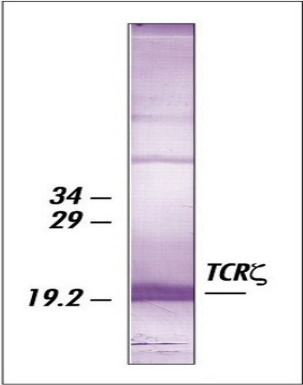
CD3z complex is crucial in transducing antigen-recognition signals into the cytoplasm of T cells and in regulating the cell surface expression of the TCR complex. T cell activation through the antigen receptor (TCR) involves the cytoplasmic tails of the CD3 subunits CD3 gamma, CD3 delta, CD3 epsilon and CD3 zeta. These CD3 subunits are structurally related members of the immunoglobulins super family encoded by closely linked genes on human chromosome 11. The CD3 components have long cytoplasmic tails that associate with cytoplasmic signal transduction molecules, and this association is mediated at least in part by a double tyrosine-based motif present in a single copy in the CD3 subunits. CD3 may play a role in TCR-induced growth arrest, cell survival and proliferation. The CD3 antigen is present on 68-82% of normal peripheral blood lymphocytes, 65-85% of thymocytes and Purkinje cells in the cerebellum. It is never expressed on B or NK cells. Decreased percentages of T lymphocytes may be observed in some autoimmune diseases. Diseases associated with CD3z include Immunodeficiency 25 and T-B+ Severe Combined Immunodeficiency Due To Cd3delta /Cd3epsilon/Cd3zeta.

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CD3z Antibody (13-7700) in WB
Western blot analysis of TCRz expression in Jurkat cells using Ms x TCRz.

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PubMed References For CD3z Monoclonal Antibody (6B10)

2 Immunoprecipitation References

Species / Dilution	Summary
Human / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2002; 168: 4420) "CTLA-4 suppresses proximal TCR signaling in resting human CD4(+) T cells by inhibiting ZAP-70 Tyr(319) phosphorylation: a potential role for tyrosine phosphatases." Author(s):Guntermann C,Alexander DR PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.168.9.4420
	13-7700 was used in immunoprecipitation to investigate the role of PIR-B in T cell development
Not Applicable / Not Cited	International immunology (2009; 21: 1151) "Ectopically expressed PIR-B on T cells constitutively binds to MHC class I and attenuates T helper type 1 responses." Author(s):Imada M,Masuda K,Satoh R,Ito Y,Goto Y,Matsuoka T,Endo S,Nakamura A,Kawamoto H,Takai T PubMed Article URL: http://dx.doi.org/10.1093/intimm/dxp081

2 Western Blot References

Species / Dilution	Summary
Mouse / Not Cited	The Journal of experimental medicine (2003; 197: 503) "A mouse with a loss-of-function mutation in the c-Cbl TKB domain shows perturbed thymocyte signaling without enhancing the activity of the ZAP-70 tyrosine kinase." Author(s):Thien CB,Scaife RM,Papadimitriou JM,Murphy MA,Bowtell DD,Langdon WY PubMed Article URL: http://dx.doi.org/10.1084/jem.20021498
Human / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2002; 168: 4420) "CTLA-4 suppresses proximal TCR signaling in resting human CD4(+) T cells by inhibiting ZAP-70 Tyr(319) phosphorylation: a potential role for tyrosine phosphatases." Author(s):Guntermann C,Alexander DR PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.168.9.4420

1 Miscellaneous PubMed References

Species / Dilution	Summary
	13-7700 was used in immunoprecipitation and western blot to study the activity of ART-1 in T cells.
Mouse / Not Cited	The Journal of biological chemistry (1999; 274: 17399) "A cell surface ADP-ribosyltransferase modulates T cell receptor association and signaling." Author(s):Liu ZX,Yu Y,Dennert G PubMed Article URL: http://dx.doi.org/10.1074/jbc.274.25.17399

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