

Product Datasheet

CD3 zeta [p Tyr142] Antibody (EM-54) - BSA Free NBP2-37708

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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NBP2-37708

CD3 zeta [p Tyr142] Antibody (EM-54) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	EM-54
Preservative	15mM Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	Phosphate buffered saline (PBS), pH 7.4

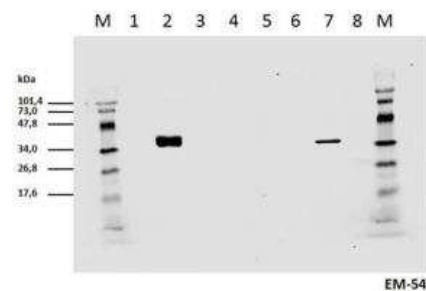
Product Description	
Description	Novus Biologicals Mouse CD3 zeta [p Tyr142] Antibody (EM-54) - BSA Free (NBP2-37708) is a monoclonal antibody validated for use in WB and Flow. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	919
Gene Symbol	CD247
Species	Human, Mouse
Specificity/Sensitivity	Antibody recognizes phosphorylated tyrosine 142 of CD3 zeta chain (CD247), which is a component of TCR/CD3 complex expressed on T cells.
Immunogen	CP1 (pTyr142) - KLH.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Flow (Intracellular)
Recommended Dilutions	Western Blot 1 ug/ml, Flow Cytometry 1-4 ug/ml, Flow (Intracellular) 1-4 ug/ml

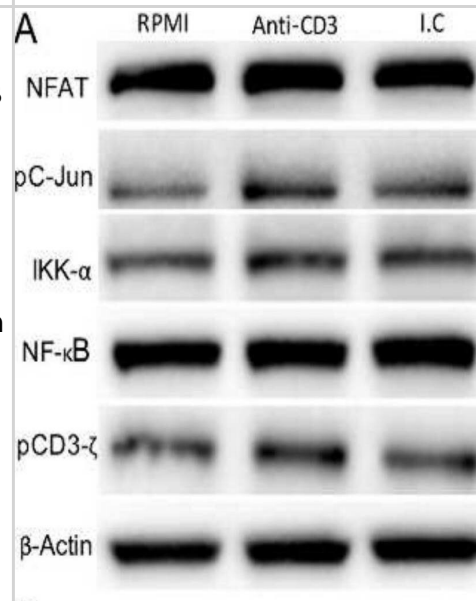


Images

Western Blot: CD3 zeta [p Tyr142] Antibody (EM-54) [NBP2-37708] - Analysis of cell lysates of HEK293T/17 cells transiently transfected with expression vectors harboring genes for mCD3zeta wild type and six different mCD3zeta mutants, where particular ITAM tyrosines were substituted with phenylalanines. The lysates (non-reducing conditions) were immunoblotted with mouse mAb anti-pY142 mCD3zeta (clone EM-54). 1: Wt mCD3zeta pervanadate non-stimulated 2: Wt mCD3zeta pervanadate stimulated 3: mut. mCD3zeta Y/F2-6 4: mut. mCD3zeta Y/F1 and 3-6 5: mut. mCD3zeta Y/F1-2 and 4-6 6: mut. mCD3zeta Y/F1-3 and 5-6 7: mut. mCD3zeta Y/F1-4 and 6 (thus only pY142 remains native) 8: mut. mCD3zeta Y/F1-5



The anti-CD3 monoclonal antibody does not induce activation in total RAW cells. (A) Immunoblot evaluation of proteins involved in the CD3 signaling pathway; NFAT, phosphorylated C-Jun (pC-Jun), IKK- α , NF- κ B and phosphorylated CD3- ζ chain (pCD3- ζ), β -Tubulin as loading control in lysates of RAW cells cultured for 24 h under the following conditions: RPMI (control), anti-CD3 (stimulus), and isotype control. Relative units (R.U) of NFAT, pC-Jun, IKK- α , NF- κ B, and pCD3- ζ in RAW cell lysates ((B-F), respectively). Levels of TNF and IL-6 were measured in supernatants collected from total RAW cells by ELISA sandwich assay ((G,H), respectively). $n = 5$ independent experiments (immunoblot) and $n = 5$ independent experiments performed in triplicate (ELISA). Bars represent the mean value \pm SD (B-F) or the mean of means \pm SEM (G,H). Kruskal-Wallis and corrected for the Dunn test were used for immunoblot data and one-way ANOVA followed by Bonferroni test for ELISA. * $p < 0.05$. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35626672>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.





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NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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