

Phospho-CD247 (CD3 zeta) (Tyr142) Monoclonal Antibody (EM-54)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	EM-54
Conjugate	Unconjugated
Immunogen	CP1 (pTyr142) - KLH
Form	liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	15mM sodium azide
Storage conditions	4° C, do not freeze
RRID	AB_2745497

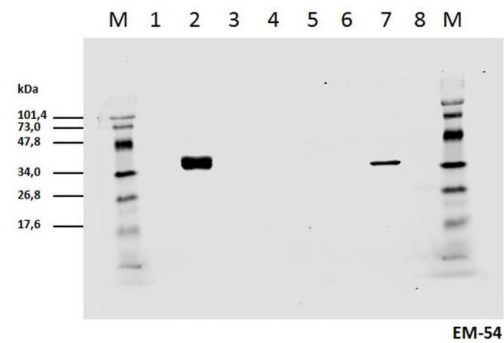
Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	-
Flow Cytometry (Flow)	1-4 µg/mL	-

Product Specific Information

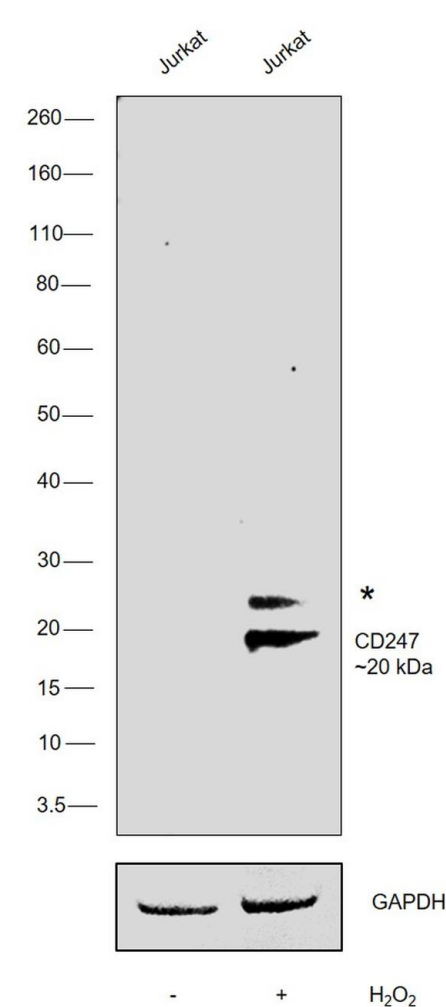
The mouse monoclonal antibody EM-54 recognizes phosphorylated tyrosine 142 of CD3 zeta chain (CD247), which is a component of TCR/CD3 complex expressed on T cells.

Flow cytometry: Intracellular staining. Western blotting: non-reducing conditions.

Product Images For Phospho-CD247 (CD3 zeta) (Tyr142) Monoclonal Antibody (EM-54)



Phospho-CD247 (CD3 zeta) (Tyr142) Antibody (MA5-28538) in WB
Western blotting 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 Monoclonal antibody anti-pY142 mCD3zeta (clone EM-54) (Product # MA5-28538). 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.



Phospho-CD247 (CD3 zeta) (Tyr142) Antibody (MA5-28538) in WB
Western Blot was performed using Anti-Phospho-CD247 (CD3 zeta) (Tyr142) Monoclonal Antibody (EM-54) (Product # MA5-28538) and a ~20 kDa band corresponding to T-cell surface glycoprotein CD3 zeta chain was observed along with an uncharacterised band (*) at ~25 kDa across cell lines tested. Membrane enriched extracts (30 µg lysate) of Jurkat (Lane 1), Jurkat with H2O2 treatment (11 mM, 1 Min) (Lane 2) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # LC2001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1 µg/mL) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1: 4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).

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