

CREB Monoclonal Antibody (LB9)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Non-human primate, Rat
Published Species	Rat, Human, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	LB9
Conjugate	Unconjugated
Immunogen	Recombinant human CREB-A protein.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_558523

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500	5 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:200	-
Immunocytochemistry (ICC/IF)	5 µg/mL	1 Publication
ELISA (ELISA)	0.1-1.0 µg/mL	-
Immunoprecipitation (IP)	2 µg	-
ChIP assay (ChIP)	2.5 µg/1x10^6 cells	-

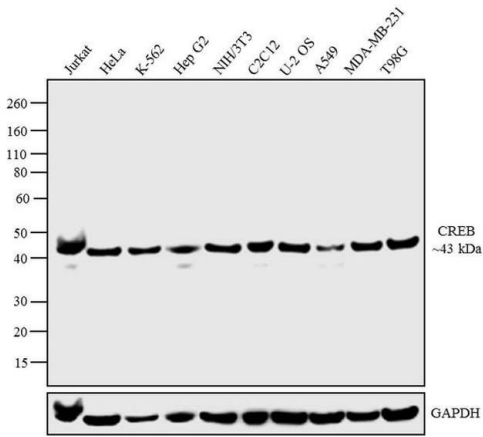
Product Specific Information

MA1-083 detects the CREB in human, monkey, rat and mouse cells.

MA1-083 has been successfully used in immunofluorescence, Western blot, immunoprecipitation, immunohistochemistry, and ELISA procedures. By Western blot, this antibody detects a ~43 kDa protein.

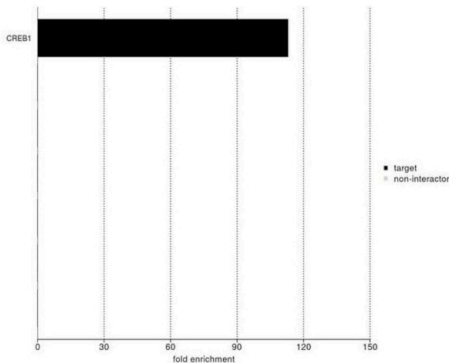
The MA1-083 immunogen is human recombinant CREB-A protein.

Product Images For CREB Monoclonal Antibody (LB9)



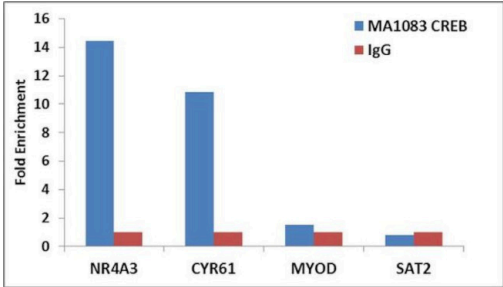
CREB Antibody (MA1-083) in WB

Western blot analysis was performed on nuclear extracts (30 µg lysate) of Jurkat (Lane 1), HeLa (Lane 2), K-562 (Lane 3), Hep G2 (Lane 4), NIH/3T3 (Lane 5), C2C12 (Lane 6), U-2 OS (Lane 7), A549 (Lane 8), MDA-MB-231 (Lane 9) and T98G (Lane10). The blots were probed with Anti-CREB Monoclonal Antibody (Product # MA1-083, 1:500 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/mL, 1:4000 dilution). A 43 kDa band corresponding to CREB was observed across the cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



CREB Antibody (MA1-083)

IP-MS enrichment of CREB1 (LFQ intensity): CREB1 was enriched 113-fold from A549 lysate compared to background proteins, using the optimized IP-MS workflow with Pierce MS-Compatible Magnetic IP Kit protein A/G (Product # 90409) and CREB1 antibody (Product # MA1-083). The STRING database (www.string-db.org) was used to identify the protein interactor list. See more information on IP-MS verification of antibody selectivity. {IP-MS}



CREB Antibody (MA1-083)

Antibody specificity was demonstrated by detection of enrichment of the target protein at specific gene loci. Chromatin Immunoprecipitation (ChIP) was performed using Anti-CREB Monoclonal Antibody (Product # MA1-083) with relevant positive (NR4A3, CYR61) (doi: 10.1074/jbc.M109.019836. Epub 2009 Jul 24) and negative (MYOD promoter, SAT2 satellite repeat) target genes/ binding sites. {RE}

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Western Blot (5)

<p>The EMBO journal</p> <p>Jacob-induced transcriptional inactivation of CREB promotes A-induced synapse loss in Alzheimer's disease.</p> <p>"MA1-083 was used in Western Blotting to investigate -amyloid peptide in synapses in Alzheimer's disease."</p> <p>Authors: Grochowska KM,Gomes GM,Raman R,Kaushik R,Sosulina L,Kaneko H,Oelschlegel AM,Yuanxiang P,Reyes-Resina I,Bayraktar G,Samer S,Spilker C,Woo MS,Morawski M,Goldschmidt J,Friese MA,Rossner S,Navarro G,Remy S,Reissner C,Karpova A,Kreutz MR</p>	<p>Year 2023</p> <p>Species Human</p>
<p>Cells</p> <p>Lamin B1 Accumulation's Effects on Autosomal Dominant Leukodystrophy (ADLD): Induction of Reactivity in the Astrocytes.</p> <p>"Published figure using CREB monoclonal antibody (Product # MA1-083) in Western Blot"</p> <p>Authors: Ratti S,Rusciano I,Mongiorgi S,Neri I,Cappellini A,Cortelli P,Suh PG,McCubrey JA,Manzoli L,Cocco L,Ramazzotti G</p>	<p>Year 2021</p>

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Immunocytochemistry (1)

<p>Aging</p> <p>The transcription factor CREB acts as an important regulator mediating oxidative stress-induced apoptosis by suppressing B-crystallin expression.</p> <p>"MA1-083 was used in Immunocytochemistry to demonstrate that CREB is an important transcription factor mediating stress response, and it promotes oxidative stress-induced apoptosis by suppressing B-crystallin expression."</p> <p>Authors: Wang L,Nie Q,Gao M,Yang L,Xiang JW,Xiao Y,Liu FY,Gong XD,Fu JL,Wang Y,Nguyen QD,Liu Y,Liu M,Li DW</p>	<p>Year 2020</p> <p>Species Rat</p>
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