

c-Jun Monoclonal Antibody (T.731.6)

Catalog NumberMA5-15119

Product data sheet

| Details | | Species Reactivity | |
|--------------------|--|--|--------------------------------------|
| Size | 100 µL | Species reactivity | Human, Mouse, Non-human primate, Rat |
| Host/Isotope | Mouse / IgG1 | | |
| Class | Monoclonal | Tested Applications | Dilution * |
| Type | Antibody | Western Blot (WB) | 1:1,000 |
| Clone | T.731.6 | * 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. | |
| Immunogen | Recombinant fragment of c-Jun protein | | |
| Conjugate | Unconjugated | | |
| Form | Liquid | | |
| Concentration | 8 µg/mL | | |
| Purification | Affinity chromatography | | |
| Storage buffer | 0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/mL BSA, 50% glycerol | | |
| Contains | <0.02% sodium azide | | |
| Storage Conditions | -20°C | | |

Product specific information

It is not recommended to aliquot this antibody.

Background/Target Information

c-Jun is a transcription factor that recognizes and binds to the enhancer heptamer motif 5'-TGA[CG]TCA-3'. It promotes activity of NR5A1 when phosphorylated by HIPK3 leading to increased steroidogenic gene expression upon cAMP signaling pathway stimulation. Involved in activated KRAS-mediated transcriptional activation of USP28 in colorectal cancer (CRC) cells.

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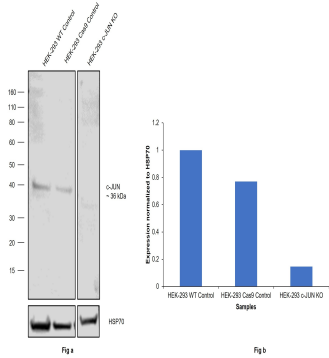
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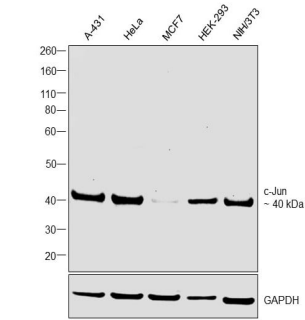
c-Jun Antibody (MA5-15119)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in JUN KO cell line compared to control cell line using c-Jun Monoclonal Antibody (T.731.6) (Product # MA5-15119). {KO}



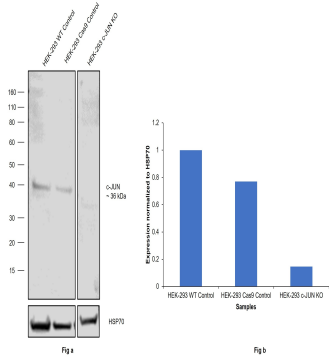
c-Jun Antibody (MA5-15119) in WB

Western blot was performed using Anti-c-Jun Monoclonal Antibody (T.731.6) (Product # MA5-15119) and a 40 kDa band corresponding to Transcription factor AP-1 was observed across tested cell lines. Nuclear enriched extracts (40 µg lysate) of A-431 (Lane 1), HeLa (Lane 2), MCF7 (Lane 3), HEK-293 (Lane 4), NIH/3T3 (Lane 5) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) 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).



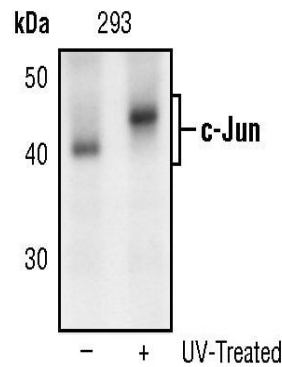
c-Jun Antibody (MA5-15119) in WB

Knockout of c-Jun was achieved by CRISPR-Cas9 genome editing using LentiArray™ Lentiviral sgRNA (Product # A32042, Assay ID CRISPR905187_SGM) and LentiArray Cas9 Lentivirus (Product # A32064). Western blot analysis of JUN was performed by loading 30 µg of HEK-293 wild type (Lane-1), HEK-293 Cas9 (Lane-2) and HEK-293 c-Jun KO (Lane-3) modified whole cell extracts. The samples were electrophoresed using NuPAGE™ Novex™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with c-Jun Monoclonal Antibody (T.731.6) (Product # MA5-15119, 1:1000 dilution) and Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:10,000 dilution) using the iBright™ FL1500 (Product # A44115). Chemiluminescent detection was performed using SuperSignal™ West Atto Ultimate Sensitivity Substrate (Product # A38556). Loss of signal upon CRISPR mediated knockout (KO) using the LentiArray™ CRISPR product line confirms that antibody is specific to c-Jun.



c-Jun Antibody (MA5-15119) in WB

Western blot analysis of c-Jun in extracts from 293 cells, untreated or UV-treated, using c-Jun monoclonal antibody (Product # MA5-15119).



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