

FOXO1 Monoclonal Antibody (3B6)

| Product Details | |
|--------------------|--|
| Size | 100 µg |
| Species Reactivity | Human, Mouse |
| Published Species | Mouse, Human |
| Host/Isotype | Mouse / IgG1 |
| Class | Monoclonal |
| Type | Antibody |
| Clone | 3B6 |
| Conjugate | Unconjugated |
| Immunogen | Purified recombinant fragment of human FOXO1 expressed in E. Coli. |
| Form | Liquid |
| Concentration | 1 mg/mL |
| Purification | Protein A |
| Storage buffer | PBS |
| Contains | 0.05% sodium azide |
| Storage conditions | Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles. |
| RRID | AB_2538549 |

| Applications | Tested Dilution | Publications |
|---|-----------------|---------------|
| Western Blot (WB) | 1:500-1:1,000 | 1 Publication |
| Immunohistochemistry (Paraffin) (IHC (P)) | 1:200-1:1,000 | - |
| Immunocytochemistry (ICC/IF) | 1:100-1:200 | 1 Publication |
| ChIP assay (ChIP) | Assay-dependent | - |

Product Specific Information

MA5-17078 targets FOXO1 in ChIP, IHC, IF, and WB applications and shows reactivity with Human and Mouse samples.

The MA5-17078 immunogen is purified recombinant fragment of human FOXO1 expressed in E. Coli.

MA5-17078 detects FOXO1 which has a predicted molecular weight of approximately 69.7kDa.

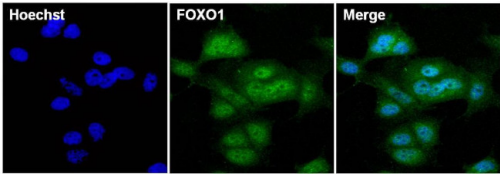
Product Images For FOXO1 Monoclonal Antibody (3B6)

FOXO1 Antibody (MA5-17078) in ICC/IF

Immunofluorescent analysis of FOXO1 (green) in untreated and 1uM 20 hours Dexamethasone treated A549 cells. The cells were fixed with 4% paraformaldehyde for 15 minutes at -20c, permeabilized with 0.1% Triton X-100 for 15 minutes, and blocked with 3% BSA for 30 minutes at room temperature. Cells were stained with a FOXO1 mouse monoclonal antibody (Product # MA5-17078) at a concentration of 5 µg/mL in blocking buffer for 1 hour at room temperature, and then incubated with a Goat anti-Mouse IgG (H+L) Secondary Antibody, Alexa Fluor Plus 488 conjugate (Product # A32731) at a dilution of 1: 500 for at least 30 minutes at a room temperature in the dark (green). Nuclei (blue) were stained with Hoechst 33342 (Product # 62249). Images were taken on a Thermo Scientific ToxInsight Instrument at 20X magnification.

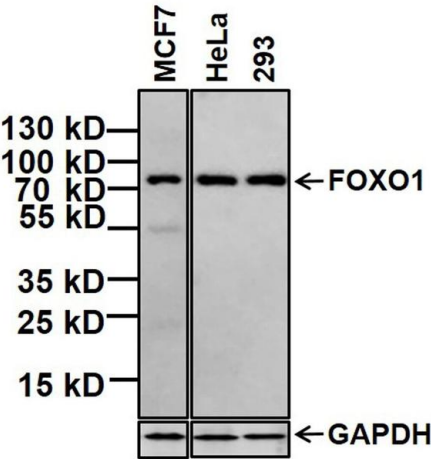
FOXO1 Antibody (MA5-17078) in ICC/IF

Immunofluorescent analysis of FOXO1 (green) in MCF7 cells. The cells were fixed with 4% paraformaldehyde for 15 minutes at -20c, permeabilized with 0.1% Triton X-100 for 15 minutes, and blocked with 3% BSA for 30 minutes at room temperature. Cells were stained with a FOXO1 mouse monoclonal antibody (Product # MA5-17078) at a concentration of 5 µg/mL in blocking buffer for 1 hour at room temperature, and then incubated with a Goat anti-Mouse IgG (H+L) Secondary Antibody, Alexa Fluor Plus 488 conjugate (Product # A32731) at a dilution of 1:500 for at least 30 minutes at a room temperature in the dark (green). Nuclei (blue) were stained with Hoechst 33342 (Product # 62249). Images were taken on a Thermo Scientific ToxInsight Instrument at 20X magnification.



FOXO1 Antibody (MA5-17078) in WB

Western blot analysis of FOXO1 was performed by loading 20 µg of MCF7 whole cell lysate and 7 µL of PageRuler Plus Prestained Protein Ladder (Product # 26619) per well onto a 4-20% Tris-Glycine polyacrylamide gel (Product # WT4202BX10). Proteins were transferred to a nitrocellulose membrane using the G2 Blotter (Product # 62288), and blocked with 5% BSA in TBST (Product # 37520) for 1 hour at room temperature. FOXO1 was detected at ~72 kDa using a FOXO1 mouse monoclonal antibody (Product # MA5-17078) at a dilution of 1: 500 in blocking buffer overnight at 4°C on a rocking platform, followed by a Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177) at a dilution of 1:1000 for at least 30 minutes at room temperature. dy, HRP conjugate (Product # A28177) at a dilution of 1:2000 for at least 30 minutes at room temperature. Chemiluminescent detection was performed using SuperSignal West Pico (Product # 34078).



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Western Blot (1)

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|---|------------------|
| Cellular signalling | Year 2019 |
| Hydrogen sulphide mitigates homocysteine-induced apoptosis and matrix remodelling in mesangial cells through Akt/FOXO1 signalling cascade. | Species Mouse |
| "MA5-17078 was used in Western blot to conclude that mesangial cell damage and extracellular remodelling caused by hyperhomocysteinemia is regulated by the Akt/FOXO1 pathway." | |
| Authors: Majumder S,Ren L,Pushpakumar S,Sen U | |

Immunocytochemistry (1)

| | |
|---|-------------------|
| Developmental cell | Year 2018 |
| 3D Culture Method for Alzheimer's Disease Modeling Reveals Interleukin-4 Rescues A42-Induced Loss of Human Neural Stem Cell Plasticity. | Species Human |
| "MA5-17078 was used in Immunocytochemistry-immunofluorescence to conclude that our culture system enables a reductionist investigation of regulation of human NSC plasticity for the identification of potential therapeutic targets for intervention in AD." | |
| Authors: Papadimitriou C,Celikkaya H,Cosacak MI,Mashkaryan V,Bray L,Bhattarai P,Brandt K,Hollak H,Chen X,He S,Antos CL,Lin W,Thomas AK,Dahl A,Kurth T,Friedrichs J,Zhang Y,Freudenberg U,Werner C,Kizil C | |
| | Dilution 1:100 |

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