

[KD Validated] Anti-FOXO4 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

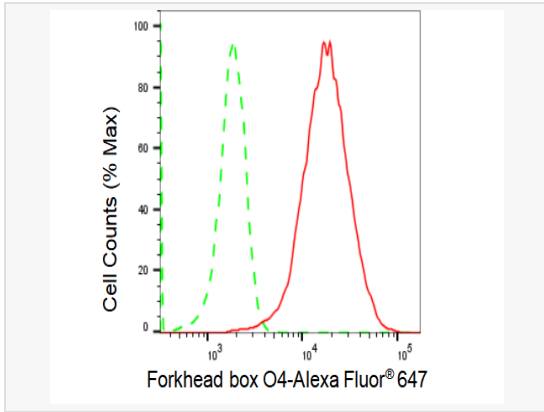
Catalog # R020988

Product Information

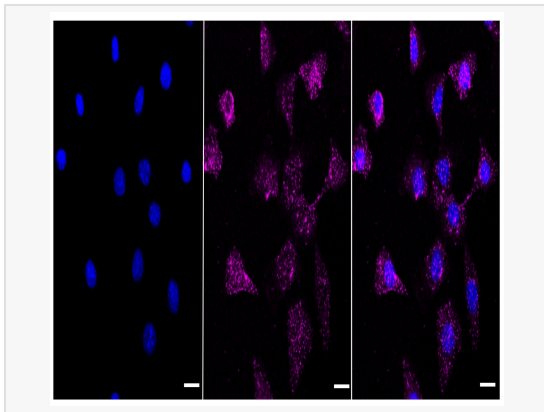
Application	WB, FC, IF (Cell)/ICC
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:5,000; FC 1:200~1:2,000; IF 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	90M80G67
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human FoxO4
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-FOXO4 Rabbit mAb [90M80G67] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

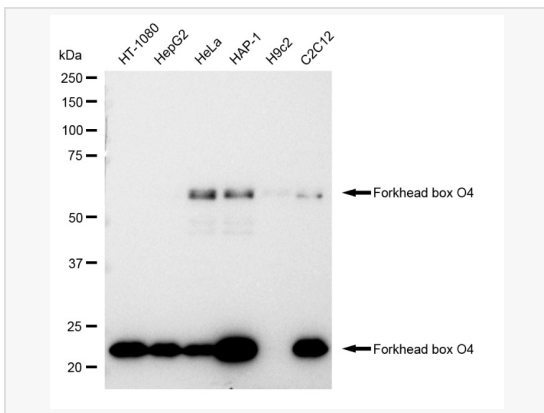
Synonyms	FOXO4; Forkhead Box O4; AFX1; MLLT7; Myeloid/Lymphoid Or Mixed-Lineage Leukemia (Trithorax Homolog, Drosophila); Translocated To, 7 2 3; Fork Head Domain Transcription Factor AFX1; Forkhead Box Protein O4; AFX; Myeloid/Lymphoid Or Mixed-Lineage Leukemia (Trithorax (Drosophila) Homolog); Translocated To, 7.
Calculated MW	Calculated MW: 54 kDa, Observed MW: 23,65 kDa
Uniprot ID	P98177
Gene ID	4303
Background	The Forkhead family of transcription factors is involved in tumorigenesis of rhabdomyosarcoma and acute leukemias. Transcription factor involved in the regulation of the insulin signaling pathway. Binds to insulin-response elements (IREs) and can activate transcription of IGFBP1. Down-regulates expression of HIF1A and suppresses hypoxia-induced transcriptional activation of HIF1A-modulated genes. Also involved in negative regulation of the cell cycle.



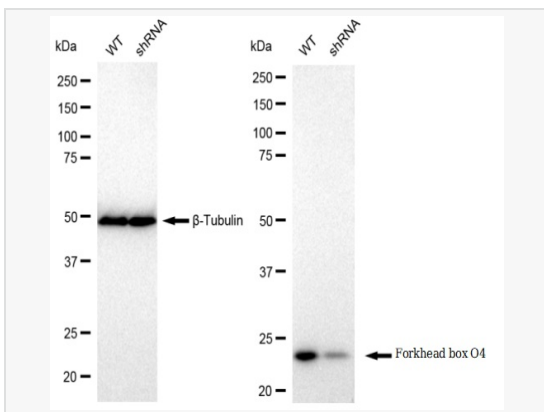
Flow cytometric analysis of Forkhead box O4 expression in HeLa cells using Forkhead box O4 antibody (R020988, 1:2,000). Green, isotype control; red, Forkhead box O4.



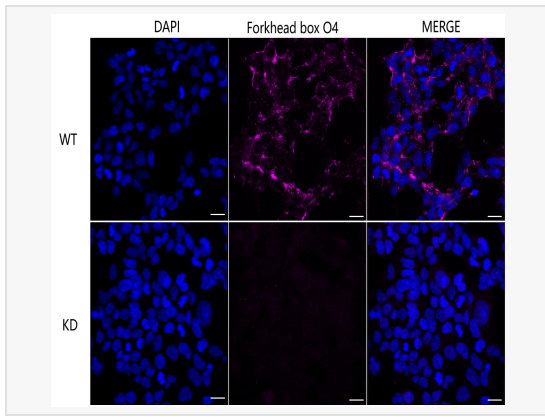
Immunocytochemical staining of HeLa cells with Forkhead box O4 antibody (R020988, 1:1,000). Nuclei were stained blue with DAPI; Forkhead box O4 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



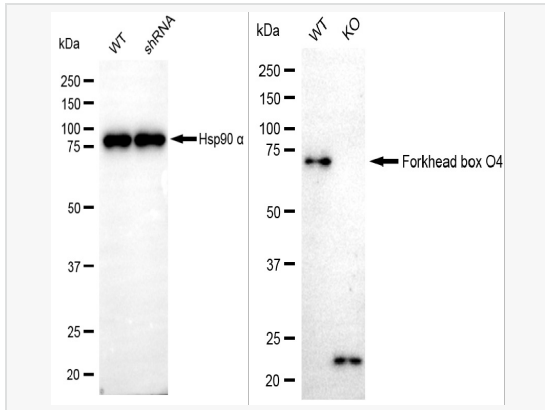
Western blotting analysis using Forkhead box O4 antibody (R020988). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Forkhead box O4 antibody (R020988, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using Forkhead box O4 antibody (R020988). Forkhead box O4 expression in wild type (WT) and Forkhead box O4 shRNA knockdown (KD) 293T cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Forkhead box O4 antibody (R020988, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Immunocytochemical staining of 293T cells using Forkhead box O4 antibody (R020988, 1:1,000), Top panel: wild-type (WT); Bottom panel: Forkhead box O4 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Forkhead box O4 was stained magenta with Alexa Fluor® 647. Scale bar, 20 μ m.



Western blotting analysis using Forkhead box O4 antibody (R020988). Forkhead box O4 expression in wild type (WT) and FOXO4 knockout (KO) 293T cells with 30 μ g of Total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Forkhead box O4 antibody (R020988, 1:5,000) and HRP-conjugated goat anti rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.