

Product Name: KD-Validated Forkhead Box O4 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00914

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 53.7kDa

Antigen Information

Gene Name	FOXO4
Alternative Names	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
Gene ID	4303.0
SwissProt ID	P98177
Immunogen	A synthesized peptide derived from human FoxO4

Background

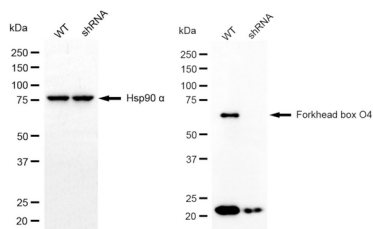
This gene encodes a member of the O class of winged helix/forkhead transcription factor family. Proteins encoded by this class

are regulated by factors involved in growth and differentiation indicating they play a role in these processes. A translocation involving this gene on chromosome X and the homolog of the *Drosophila trithorax* gene, encoding a DNA binding protein, located on chromosome 11 is associated with leukemia. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2010]

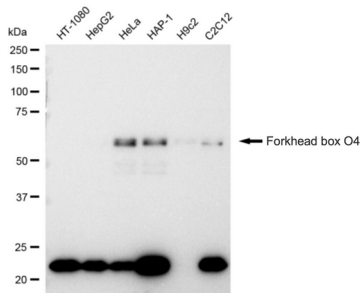
Research Area

Epigenetics and Nuclear Signaling

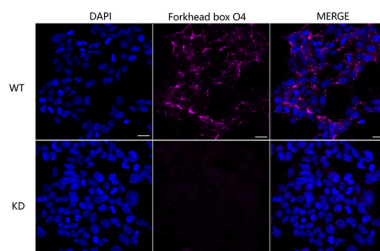
Image Data



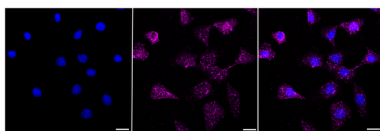
Western blotting analysis using forkhead box o4 antibody (KVA00914). Forkhead box o4 expression in wild type (WT) and forkhead box o4 (FOXO4) shRNA knockdown (KD) 293T cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with forkhead box o4 antibody (KVA00914, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



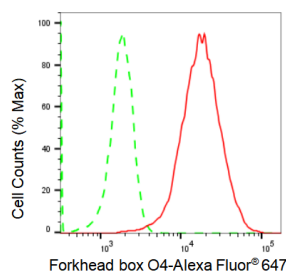
Western blotting analysis using Forkhead box O4 antibody (KVA00914). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Forkhead box O4 antibody (KVA00914, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of 293T cells using Forkhead box O4 antibody (KVA00914, 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 µm.



Immunocytochemical staining of HeLa cells with Forkhead box O4 antibody (KVA00914, 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.



Flow cytometric analysis of Forkhead box O4 expression in HeLa cells using Forkhead box O4 antibody (KVA00914, 1:2,000). Green, isotype control; red, Forkhead box O4.

