
Product Name: KD-Validated FOXO1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00916**

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: 69.7kDa

Antigen Information

Gene Name	FOXO1 Forkhead Box O1; FOXO1A; FKH1; FKHR; Forkhead Box Protein O1A; Forkhead Box Protein
Alternative Names	O1; Forkhead, Drosophila, Homolog Of, In Rhabdomyosarcoma; Forkhead Homolog In Rhabdomyosarcoma; Forkhead In Rhabdomyosarcoma
Gene ID	2308.0
SwissProt ID	Q12778
Immunogen	A synthesized peptide derived from human FOXO1

Background

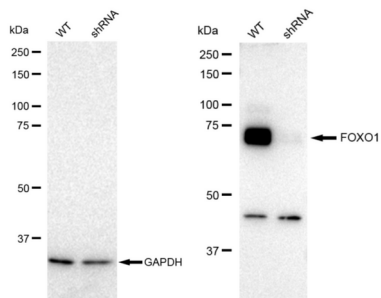
This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. The specific function of this gene has not yet been determined; however, it may play a role in myogenic growth and differentiation.

Translocation of this gene with PAX3 has been associated with alveolar rhabdomyosarcoma. [provided by RefSeq, Jul 2008]

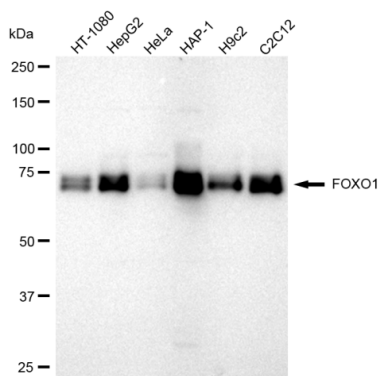
Research Area

Signal Transduction, Neuroscience, Epigenetics and Nuclear Signaling, Cancer, Metabolism

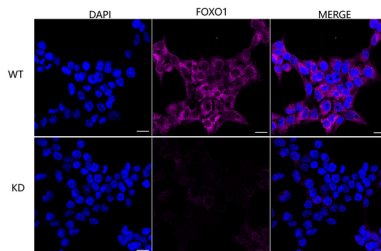
Image Data



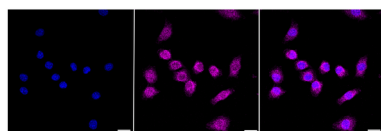
Western blotting analysis using FOXO1 antibody (KVA00916). FOXO1 expression in wild type (WT) and FOXO1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. GAPDH serves as a loading control. The blot was incubated with FOXO1 antibody (KVA00916, 1:5,000) and HRP-conjugated goat anti rabbit secondary antibody (APS0635, 1:10,000) respectively.



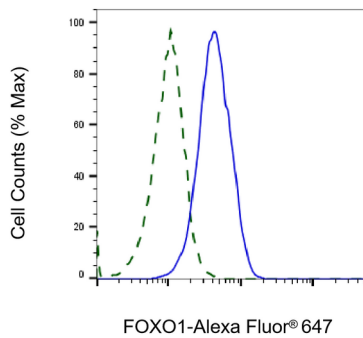
Western blotting analysis using FOXO1 antibody (KVA00916). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with FOXO1 antibody (KVA00916, 1:5,000) and HRP-conjugated goat anti rabbit secondary antibody (APS0635, 1:10,000) respectively.



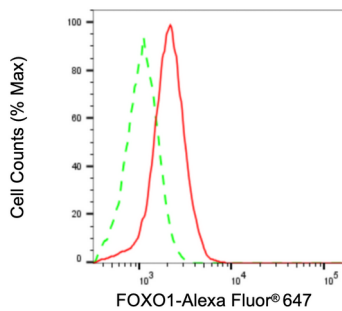
Immunocytochemical staining of HeLa cells using FOXO1 antibody (KVA00916, 1:1,000), Top panel: wild-type (WT); Bottom panel: FOXO1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; FOXO1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of C2C12 cells with FOXO1 antibody (KVA00916, 1:1,000). Nuclei were stained blue with DAPI; FOXO1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Very low. Scale bar: 20 µm.



Validation of FOXO1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with FOXO1 antibody (KVA00916, 1:2,000) and analyzed using CytoFLEX.



Flow cytometric analysis of FOXO1 expression in HepG2 cells using FOXO1 antibody (KVA00916, 1:2,000). Green, isotype control; red, FOXO1.