

Product Name: KD-Validated Forkhead Box O3 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb01409

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: 71.3kDa

Antigen Information

Gene Name	FOXO3
Alternative Names	FOXO3; Forkhead Box O3; AF6q21; FKHL1; FOXO3A; FOXO2; Forkhead In Rhabdomyosarcoma-Like 1; Forkhead Box Protein O3; Forkhead, Drosophila, Homolog Of, In Rhabdomyosarcoma-Like 1; Forkhead Homolog (Rhabdomyosarcoma) Like 1; Forkhead Box O3A; AF6q21 Protein; FKHL1P2; FOXO3A-
Gene ID	2309.0
SwissProt ID	O43524
Immunogen	A synthesized peptide derived from human FoxO3a

Background

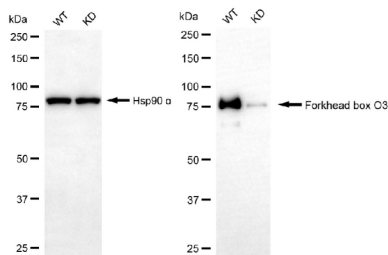
This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. This

gene likely functions as a trigger for apoptosis through expression of genes necessary for cell death. Translocation of this gene with the MLL gene is associated with secondary acute leukemia. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq, Jul 2008]

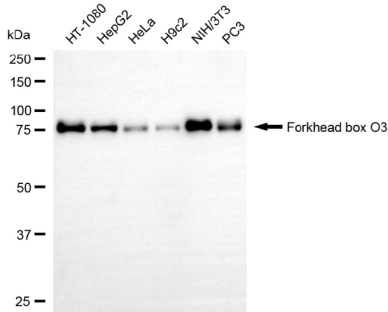
Research Area

Epigenetics and Nuclear Signaling

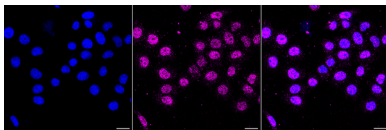
Image Data



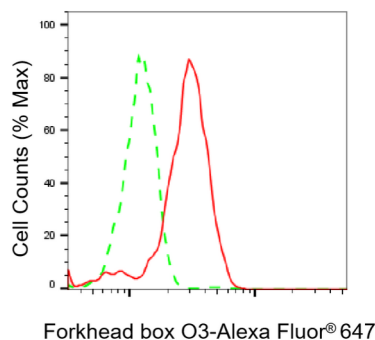
Western blotting analysis using forkhead box O3 antibody (KVA01409). Forkhead box O3 expression in wild-type (WT) and forkhead box O3 (FOXO3) knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with forkhead box O3 antibody (KVA01409, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using forkhead box O3 antibody (KVA01409). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with forkhead box O3 antibody (KVA01409, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Forkhead box O3 antibody (KVA01409, 1:1,000). Nuclei were stained blue with DAPI; Forkhead box O3 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 O3 expression in HepG2 cells using Forkhead box O3 antibody (KVA01409, 1:2,000). Green, isotype control; red, Forkhead box O3.