

Product Name: KD-Validated Forkhead Box A1 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00236

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,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: 49.1kDa

Antigen Information

Gene Name	FOXA1 FOXA1; Forkhead Box A1; HNF3A; Hepatocyte Nuclear Factor 3-Alpha; Forkhead Box Protein
Alternative Names	A1; Transcription Factor 3A; HNF-3-Alpha; HNF-3A; TCF-3A; TCF3A; Hepatocyte Nuclear Factor 3, Alpha
Gene ID	3169.0
SwissProt ID	P55317
Immunogen	A synthesized peptide derived from human FOXA1

Background

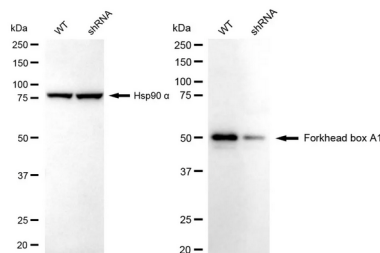
This gene encodes a member of the forkhead class of DNA-binding proteins. These hepatocyte nuclear factors are transcriptional activators for liver-specific transcripts such as albumin and transthyretin, and they also interact with chromatin.

Similar family members in mice have roles in the regulation of metabolism and in the differentiation of the pancreas and liver.
[provided by RefSeq, Jul 2008]

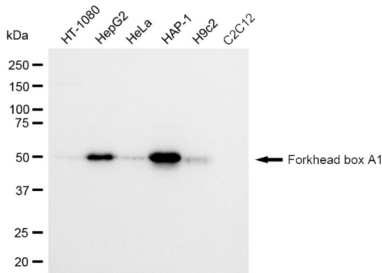
Research Area

Epigenetics and Nuclear Signaling

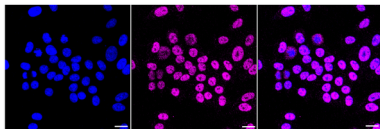
Image Data



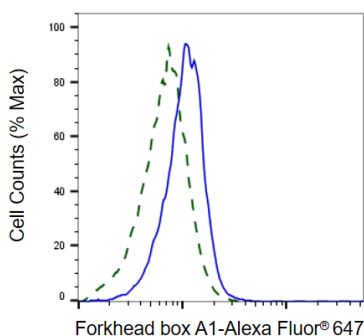
Western blotting analysis using forkhead box A1 antibody (KVA00236). Forkhead box A1 expression in wild-type (WT) and forkhead box A1 (FOXA1) shRNA knockdown (KD) HepG2 cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with forkhead box A1 antibody (KVA00236, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



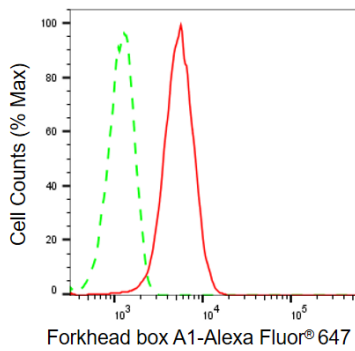
Western blotting analysis using Forkhead box A1 antibody (KVA00236). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Forkhead box A1 antibody (KVA00236, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Forkhead box A1 antibody (KVA00236, 1:1,000). Nuclei were stained blue with DAPI; Forkhead box A1 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.



Validation of forkhead box A1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HepG2 cells were stained with forkhead box A1 antibody (KVA00236, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of forkhead box A1 expression in HepG2 cells using forkhead box A1 antibody (KVA00236, 1:2,000). Green, isotype control; red, forkhead box A1.