



FOXO1A Rabbit mAb

Catalog No	YP-rAb-18048
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	FOXO1
Protein Name	Forkhead box protein O1
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:400-1000; WB 1:1000-5000; IF 1:200-1000; ELISA 1:5000-20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	FoxO1;Forkhead box protein O1;FOXO1 ; FKHR ; FOXO1A ; Forkhead box protein O1 ; Forkhead box protein O1A ; Forkhead in rhabdomyosarcoma
Observed Band	75kD
Calculated Molecular Weight	70kD
Cell Pathway	Nucleus
Tissue Specificity	Ubiquitous.
Function	Disease:Chromosomal aberrations involving FOXO1 are a cause of rhabdomyosarcoma 2 (RMS2) [MIM:268220]; also known as alveolar rhabdomyosarcoma. Translocation (2;13)(q35;q14) with PAX3; translocation t(1;13)(p36;q14) with PAX7. The resulting protein is a transcriptional activator.,Function:Transcription factor.,PTM:Phosphorylated by AKT1; insulin-induced (By similarity). IGF1 rapidly induces phosphorylation of Ser-256, Thr-24, and Ser-319. Phosphorylation of Ser-256 decreases DNA-binding activity and promotes the phosphorylation of Thr-24, and Ser-319, permitting phosphorylation of Ser-322 and Ser-325, probably by CK1, leading to nuclear exclusion and loss of function. Phosphorylation of Ser-329 is independent of IGF1 and leads to reduced function. Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Contains 1 fork-head DNA-binding domain.,subcellular





location:Shuttles between cytoplasm and nucleus.,subunit:Interacts with LRPPRC.,tissue specificity:Ubiquitous.,

Background

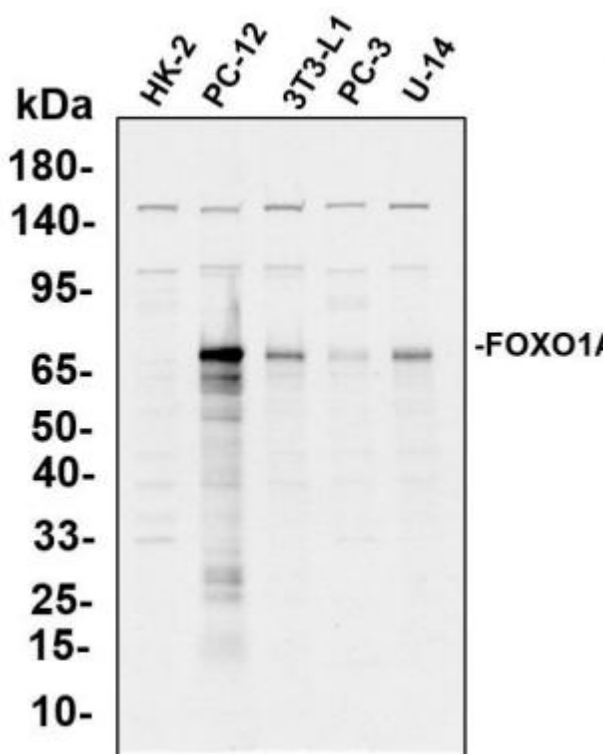
This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. The specific function of this gene has not yet been determined; however, it may play a role in myogenic growth and differentiation. Translocation of this gene with PAX3 has been associated with alveolar rhabdomyosarcoma. [provided by RefSeq, Jul 2008],

matters needing attention

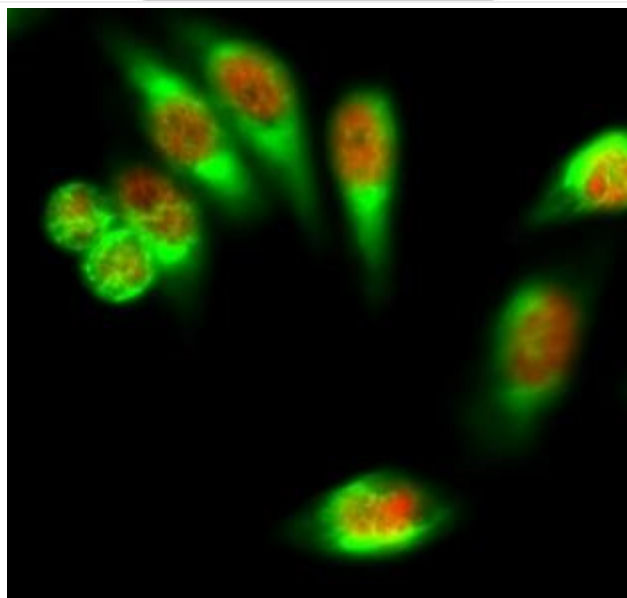
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

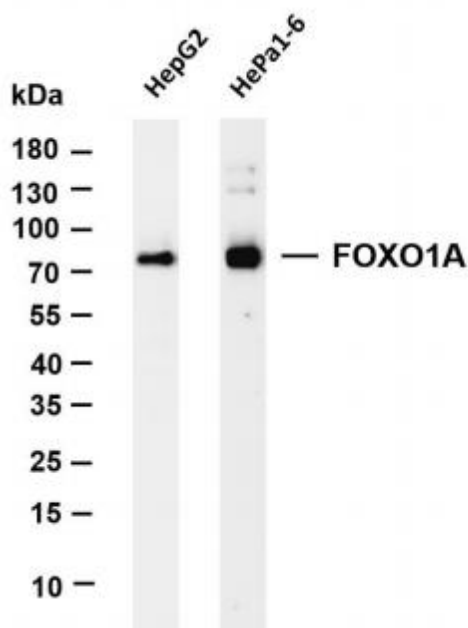


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night with a 1:1800 dilution. The Dylight 800-conjugated Goat anti-Rabbit antibody

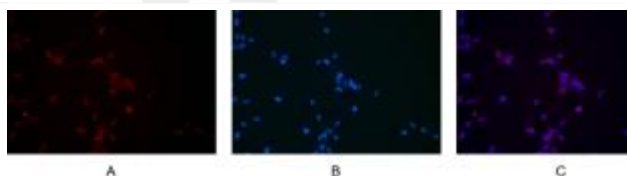


Immunofluorescence analysis of HeLa cell. 1,FoxO1 Antibody(red) was diluted at 1:200(4° overnight). CK7 Monoclonal Antibody(12D7)(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:

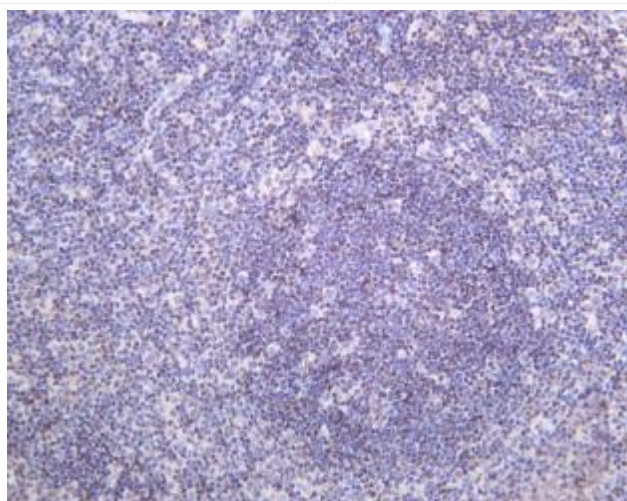




Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-FOXO1A antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HepG2 Lane 2: HePa1-6 Predicted band size: 75kDa Observed band size: 75kDa



Immunofluorescence analysis of HEK293. Picture A: FOXO1A antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B



Human tonsil was stained with anti-FOXO1A Rabbit antibody

