Anti-FOXO1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015231

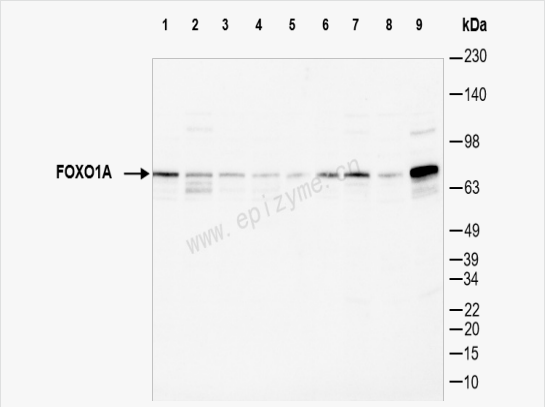
Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:5,000; IF 1:200~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	91C34J78
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human FOXO1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-FOXO1 Rabbit mAb [91C34J78] is for research use only and not for use in diagnostic or therapeutic procedures.

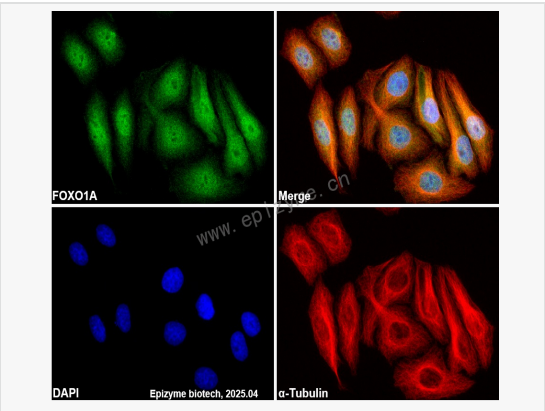
Protein Information

Synonyms	FKH 1; FKH1; FKHR; Forkhead (Drosophila) homolog 1 (rhabdomyosarcoma); Forkhead box O1; Forkhead box protein O1; Forkhead box protein O1A; Forkhead in rhabdomyosarcoma; Forkhead, Drosophila, homolog of, in rhabdomyosarcoma; FoxO transcription factor; foxo1; FOXO1_HUMAN; FOXO1A; OTTHUMP00000018301.
Calculated MW	Calculated MW: 70 kDa; Observed MW: 70 kDa
Uniprot ID	Q12778
Gene ID	2308
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]
Cellular Location	Cytoplasm. Nucleus. Note=Shuttles between cytoplasm and nucleus. Translocates to the nucleus upon oxidative stress induced phosphorylation at Ser-212 by STK4/MST1. Translocates to the nucleus upon phosphorylation of Thr-24, Ser-256 and Ser-322 by SGK1.
Tissue Location	Ubiquitous.

Validation Images



Western Blot - Anti-FOXO1 Rabbit mAb [91C34J78]
All lanes: R015231 at 1:3,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: SW620 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 5: Caco2 (Human colorectal adenocarcinoma epithelial cell) whole cell lysates
Lane 6: 293T (Human embryonic kidney cell) whole cell lysates
Lane 7: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 8: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 9: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 70 kDa
Observed band size: 70 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-FOXO1 Rabbit mAb [91C34J78]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R015231 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).