

FOXO1A (PT0213R) PT® Rabbit mAb

Catalog No: YM8135

Reactivity: Human; Mouse;

Applications: WB;IHC;IF;IP;ELISA

Target: FoxO1

Fields: >>FoxO signaling pathway;>>AMPK signaling pathway;>>Longevity regulating

pathway;>>Longevity regulating pathway - multiple species;>>Cellular senescence;>>Insulin signaling pathway;>>Thyroid hormone signaling pathway;>>Glucagon signaling pathway;>>Insulin resistance;>>AGE-RAGE

signaling pathway in diabetic complications;>>Alcoholic liver

disease;>>Shigellosis;>>Human papillomavirus infection;>>Pathways in cancer;>>Transcriptional misregulation in cancer;>>Prostate cancer

Gene Name: FOXO1

Protein Name: Forkhead box protein O1

Q12778

Q9R1E0

Human Gene Id: 2308

Human Swiss Prot

No:

Mouse Gene Id: 56458

Mouse Swiss Prot

No:

Rat Gene ld: 84482

Rat Swiss Prot No: G3V7R4

Specificity: endogenous

Formulation: PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Source : Monoclonal, rabbit, IgG, Kappa

1/3



Dilution: IHC 1:400-1000,WB 1:1000-5000,IF 1:200-1000,ELISA 1:5000-20000,IP

1:50-200

Purification: Protein A

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight: 75kD

Observed Band: 75kD

Cell Pathway: Insulin Receptor; B Cell Receptor; Protein_Acetylation

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],

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; insulininduced (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 betw

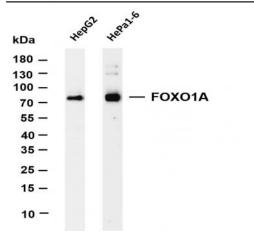
Subcellular Location:

Nucleus

Expression:

Ubiquitous.

Products Images



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-FOXO1A (PT0213R) 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