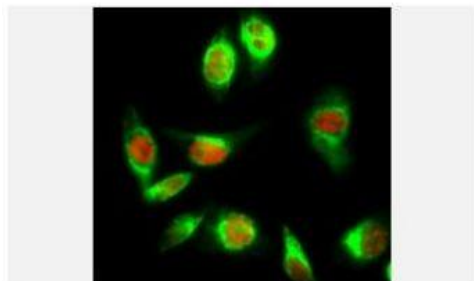


FoxO1 Polyclonal Antibody

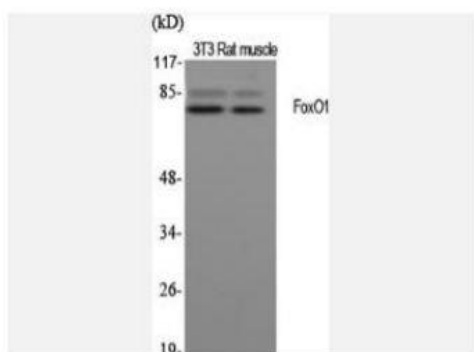
Catalog No.	IPB0269
Reactivity	Human; Mouse; RatDrosophila
Applications	WB; IHC-p; IF/ICC; ELISA
Dilution	WB: 1:500-1:2000 IHC: 1:50-1:200 IF: 1:50-1:200 ELISA: 1:20000
Gene Name	FOXO1
Protein Name	Forkhead box protein O1
Human Gene Id	2308
Swiss-Prot	Q12778
Formulation	Liquid in PBS containing 50% glycerol, 05% BSA and 002% sodium azide
Source	Rabbit
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Concentration	1 mg/ml
Storage&Stability	-20°C/1 year
Subcellular Location	Cytoplasm Nucleus Shuttles between the cytoplasm and nucleus Largely nuclear in unstimulated cells (PubMed:11311120, PubMed:12228231, PubMed:19221179, PubMed:21245099, PubMed:20543840, PubMed:25009184) In osteoblasts, colocalizes with ATF4 and RUNX2 in the nucleus (By similarity) Serum deprivation increases localization to the nucleus, leading to activate expression of SOX9 and subsequent chondrogenesis (By similarity) Insulin-induced phosphorylation at Ser-256 by PKB:AKT1 leads, via stimulation of Thr-24 phosphorylation, to binding of 14-3-3 proteins and nuclear export to the cytoplasm where it is degraded by the ubiquitin-proteosomal pathway (PubMed:11237865, PubMed:12228231) Phosphorylation at Ser-249 by CDK1 disrupts binding of 14-3-3 proteins and promotes nuclear accumulation (PubMed:18356527) Phosphorylation by NLK results in nuclear export (By similarity) Translocates to the nucleus upon oxidative stress-induced phosphorylation at Ser-212 by STK4:MST1 (PubMed:19221179, PubMed:21245099) SGK1-mediated phosphorylation also results in nuclear translocation (By similarity) Retained in the nucleus under stress stimuli including oxidative stress, nutrient deprivation or nitric oxide (By similarity) Retained in the nucleus on methylation (By similarity) PPIA:CYPB stimulates its nuclear accumulation (PubMed:31063815) Deacetylation by SIRT6, promotes its translocation into the cytoplasm (PubMed:25009184)
MW	69662
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

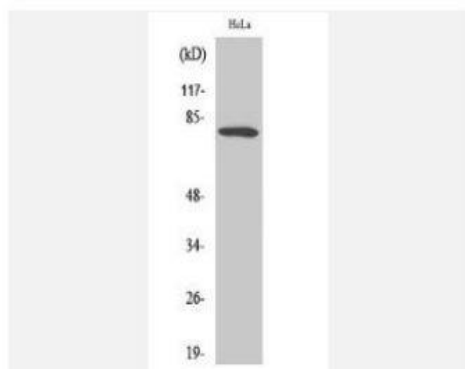
Products Images:



Immunofluorescence analysis of HeLa cell. 1, FoxO1 Polyclonal Antibody (red) was diluted at 1:200 (4° overnight). COX IV Monoclonal Antibody (6C8) (green) was diluted at 1:200 (4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog: RS3611 was diluted at 1:1000 (room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog: RS3208 was diluted at 1:1000 (room temperature, 50min).



Western Blot analysis of various cells using FoxO1 Polyclonal Antibody diluted at 1:500



Western Blot analysis of HeLa cells using FoxO1 Polyclonal Antibody diluted at 1:500