For Research Use Only

FOXO1 Recombinant antibody

Catalog Number:82997-1-RR 1 Publications



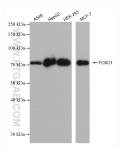
Basic Information	Catalog Number: 82997-1-RR	GenBank Accession Number BC021981	: Purification Method: Protein A purification
	Size: 1000 ug/ml	GenelD (NCBI): 2308	CloneNo.: 230183D1
	Source: Rabbit	UNIPROT ID: Q12778	Recommended Dilutions: WB 1:2000-1:10000
	lsotype: IgG	Full Name: forkhead box O1	IHC 1:50-1:500 IF/ICC 1:200-1:800
	Immunogen Catalog Number: AG13296	Calculated MW: 655 aa, 70 kDa	
		Observed MW: 70-80 kDa	
Applications	Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	Posi	tive Controls:
	Cited Applications:	WB : cells	A549 cells, HepG2 cells, HEK-293 cells, MCF-7
	WB	IHC	human pancreas cancer tissue,
	Species Specificity: human	IF/IC	C : HepG2 cells,
	Cited Species: human		
	Note-IHC: suggested antiger TE buffer pH 9.0; (*) Alterna retrieval may be performed buffer pH 6.0	tively, antigen	
Background Information	FOXO1, also named as FOXO1A, FKHR and FKH1, is a member of the FOXO subfamily of Forkhead transcription factors. FOXO1 is a transcription factor which acts as a regulator of cell responses to oxidative stress. FOXO1 interacts with LRPPRC and SIRT1. In the presence of KIRT1, FOXO1 mediates down-regulation of cyclin D1 and up-regulation of CDKN1B levels which are required for cell transition from proliferative growth to quiescence. FOXO1 contains three predicted protein kinase B phosphorylation sites (Thr-24, Ser-256, and Ser-319) that are conserved in other FOXO proteins. The t(2;13) and the variant t(1;13) translocations generate PAX3/FKHR and PAX7/FKHR fusion proteins respectively. The resulting protein is a transcriptional activator. Defects in FOXO1 are a cause of rhabdomyosarcoma type 2 (RMS2).		
Notable Publications	Author P	Jbmed ID Journal	Application
	Weihuan Hu 3	7567425 J Ethnopharn	
Storage	Storage: Store at -20°C. Stable for one year a Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20°C	50% glycerol pH 7.3.	

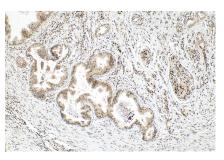
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

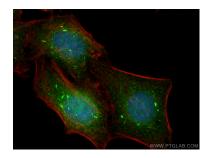
Selected Validation Data

temperature for 1.5 hours.

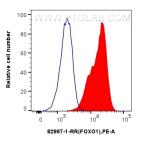


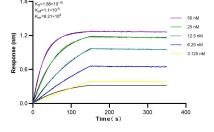


Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 82997-1-RR (FOXO1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). Various lysates were subjected to SDS PAGE followed by western blot with 82997-1-RR (FOXO1 antibody) at dilution of 1:5000 incubated at room



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using FOXO1 antibody (82997-1-RR, Clone: 230183D1) at dilution of 1:400 and Multi-rAb Coralite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).





1x10^6 A431 cells were intracellularly stained with 0.25 ug FOXO 1 Recombinant antibody (82997-1-RR, Clone:230183D1) and PE-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).

Biolayer interferometry (BLI) kinetic assays of 82997-1-RR against Human FOXO1 were performed. The affinity constant is 0.188 nM.