

For Research Use Only

# FOXO1 Monoclonal antibody

Catalog Number: 66457-1-Ig

Featured Product

6 Publications



## Basic Information

<b>Catalog Number:</b> 66457-1-Ig	<b>GenBank Accession Number:</b> BC021981	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1300 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 2308	<b>CloneNo.:</b> 1D9A2
<b>Source:</b> Mouse	<b>Full Name:</b> forkhead box O1	<b>Recommended Dilutions:</b> WB 1:1000-1:6000
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 655 aa, 70 kDa	
<b>Immunogen Catalog Number:</b> AG13296	<b>Observed MW:</b> 70 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, SMMC-7721 cells, HEK-293 cells, HepG2 cells, L02 cells
<b>Cited Applications:</b> CoIP, IF, WB	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	

## 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	Pubmed ID	Journal	Application
Xue Wang	33107700	Thorac Cancer	WB
Hao Zhang	34803509	Int J Biol Sci	WB
Bing Yu	34758440	Int Immunopharmacol	WB

## Storage

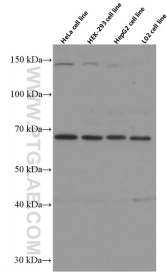
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

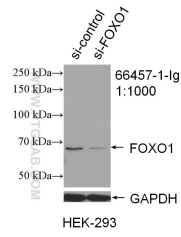
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66457-1-Ig (FOXO1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



WB result of FOXO1 antibody (66457-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FOXO1 transfected HEK-293 cells.