

For Research Use Only

# FOXO1 Monoclonal antibody

Catalog Number: 66457-1-Ig

Featured Product

6 Publications



## Basic Information

Catalog Number:

66457-1-Ig

Size:

1300 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG13296

GenBank Accession Number:

BC021981

GeneID (NCBI):

2308

UNIPROT ID:

Q12778

Full Name:

forkhead box O1

Calculated MW:

655 aa, 70 kDa

Observed MW:

70 kDa

Purification Method:

Protein G purification

CloneNo.:

1D9A2

Recommended Dilutions:

WB 1:1000-1:6000

## Applications

Tested Applications:

WB, ELISA

Cited Applications:

CoIP, IF, WB

Species Specificity:

human

Cited Species:

human

Positive Controls:

WB: HeLa cells, SMMC-7721 cells, HEK-293 cells, HepG2 cells, L02 cells

## 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

For technical support and original validation data for this product please contact:

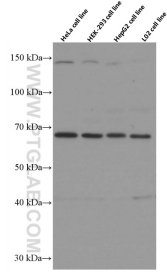
T: 4006900926

E: Proteintech-CN@ptglab.com

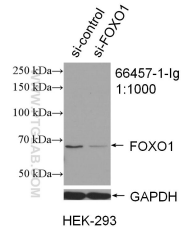
W: ptgcn.com

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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.