

FOXO1 Monoclonal antibody

Catalog Number: 66457-1-Ig

Featured Product

9 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:

WB, IF, CoIP

Species Specificity:

human

Cited Species:

human, mouse

Positive Controls:

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

Background Information

FOXO1, also named as FOXO1A, FKHR and FKHL1, 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 KRT1, 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

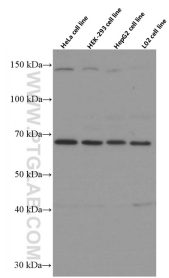
For technical support and original validation data for this product please contact:

T: 4006900926

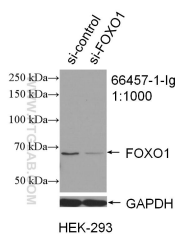
E: Proteintech-CN@ptglab.comW: ptgcn.com

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

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.