For Research Use Only

## FOXO1 Polyclonal antibody Catalog Number: 18592-1-AP Featured Product

Featured Product 156 Publications



| Basic Information                               | Catalog Number:<br>18592-1-AP  | GenBank Accession N<br>BC021981   | umber:  | Purification Method:<br>Antigen affinity purification   |   |  |                           |
|---|--|---|---|---|---|--|---------------------------|
|   | Size:  | GeneID (NCBI):<br>2308<br>UNIPROT ID:<br>Q12778   |   | Recommended Dilutions:<br>WB 1:1000-1:8000<br>IP 0.5-4.0 ug for 1.0-3.0 mg of total<br>protein lysate<br>IHC 1:1000-1:4000<br>IF/ICC 1:200-1:800  |   |  |                           |
|   | 150ul , Concentration: 600 ug/ml by<br>Nanodrop;<br>Source:<br>Rabbit<br>Isotype:<br>IgG<br>Immunogen Catalog Number:<br>AG13296   |   |   |   |   |  |                           |
|   |  |   |   |   | Full Name:<br>forkhead box O1<br>Calculated MW:<br>655 aa, 70 kDa |  |                           |
|   |  |   |   |   |   |  | Observed MW:<br>70-80 kDa |
|   |  | Applications  | Tested Applications:  |   | Positive Controls:  |  |                           |
|   |  |   | WB, IHC, IF/ICC, FC (Intra), IP, ELISA  |   |   | WB : DU 145 cells, HEK-293T cells, HepG2 cells, SGC- |                           |
|   |  |   | Cited Applications:<br>WB, IHC, IF, IP, ChIP  | 7901 cells, mouse brain tissue, rat bra<br>kidney tissue  |   | ouse brain tissue, rat brain tissue, mous            |                           |
| Species Specificity:                            |  |   | IP : HepG2 ce   | lls,  |   |  |                           |
| human, mouse, rat                               |  |   | IHC : human kidney tissue,  |   |   |  |                           |
| Cited Species:<br>human, mouse, rat, pig, sheep |  |   | IF/ICC : HeLa   | cells,  |   |  |                           |
|   | retrieval may be performed w   | in chirale  |   |   |   |  |                           |
|   | buffer pH 6.0  |   |   |   |   |  |                           |
| Background Information                          | FOXO1, also named as FOXO1A, FKF<br>factors. FOXO1 is a transcription fact<br>interacts with LRPPRC and SIRT1. In t<br>regulation of CDKN1B levels which a<br>contains three predicted protein kina  | or which acts as a regul<br>he presence of KIRT1, F<br>re required for cell tran<br>use B phosphorylation s<br>the variant t(1;13) tran   | ator of cell resp<br>OXO1 mediate<br>sition from pro<br>ites (Thr-24, Se<br>slocations gene   | oonses to oxidative stress. FOXO1<br>s down-regulation of cyclin D1 and up-<br>liferative growth to quiescence. FOXO1<br>r-256, and Ser-319) that are conserved in<br>erate PAX3/FKHR and PAX7/FKHR fusion  |   |  |                           |
|   | FOXO1, also named as FOXO1A, FKH<br>factors. FOXO1 is a transcription fact<br>interacts with LRPPRC and SIRT1. In t<br>regulation of CDKN1B levels which a<br>contains three predicted protein kina<br>other FOXO proteins. The t(2;13) and<br>proteins respectively. The resulting<br>rhabdomyosarcoma type 2 (RMS2).   | or which acts as a regul<br>he presence of KIRT1, F<br>re required for cell tran<br>use B phosphorylation s<br>the variant t(1;13) tran   | ator of cell resp<br>OXO1 mediate<br>sition from pro<br>ites (Thr-24, Se<br>slocations gene<br>nal activator. D                         | oonses to oxidative stress. FOXO1<br>s down-regulation of cyclin D1 and up-<br>liferative growth to quiescence. FOXO1<br>r-256, and Ser-319) that are conserved in<br>erate PAX3/FKHR and PAX7/FKHR fusion  |   |  |                           |
|   | FOXO 1, also named as FOXO 1A, FKH<br>factors. FOXO 1 is a transcription fact<br>interacts with LRPPRC and SIRT1. In t<br>regulation of CDKN1B levels which a<br>contains three predicted protein kins<br>other FOXO proteins. The t(2;13) and<br>proteins respectively. The resulting p<br>rhabdomyosarcoma type 2 (RMS2).  | or which acts as a regul<br>he presence of KIRT1, F<br>re required for cell tran<br>ise B phosphorylation s<br>the variant t(1;13) tran<br>protein is a transcription   | ator of cell resp<br>OXO1 mediate<br>sition from pro<br>ites (Thr-24, Se<br>slocations gene<br>nal activator. D                         | bonses to oxidative stress. FOXO1<br>s down-regulation of cyclin D1 and up-<br>liferative growth to quiescence. FOXO1<br>r-256, and Ser-319) that are conserved in<br>erate PAX3/FKHR and PAX7/FKHR fusion<br>efects in FOXO1 are a cause of                            |   |  |                           |
| Background Information                          | FOXO 1, also named as FOXO 1A, FKH<br>factors. FOXO 1 is a transcription fact<br>interacts with LRPPRC and SIRT 1. In t<br>regulation of CDIKN1B levels which a<br>contains three predicted protein kina<br>other FOXO proteins. The t(2;13) and<br>proteins respectively. The resulting p<br>rhabdomyosarcoma type 2 (RMS2).  | or which acts as a regul<br>he presence of KIRT1, F<br>re required for cell tran<br>ise B phosphorylation s<br>the variant t(1;13) tran<br>protein is a transcription<br>bmed ID Journ<br>574948 Int J f  | ator of cell resp<br>OXO 1 mediate<br>sition from pro<br>ites (Thr-24, Se<br>slocations gene<br>nal activator. D                        | oonses to oxidative stress. FOXO1<br>s down-regulation of cyclin D1 and up-<br>liferative growth to quiescence. FOXO1<br>r-256, and Ser-319) that are conserved in<br>erate PAX3/FKHR and PAX7/FKHR fusion<br>efects in FOXO1 are a cause of<br>Application             |   |  |                           |
|   | FOXO1, also named as FOXO1A, FKH<br>factors. FOXO1 is a transcription fact<br>interacts with LRPPRC and SIRT1. In t<br>regulation of CDKN1B levels which a<br>contains three predicted protein kina<br>other FOXO proteins. The t(2;13) and<br>proteins respectively. The resulting p<br>rhabdomyosarcoma type 2 (RMS2).<br>Author Pu<br>Xiaoyan Liu 31<br>Duobin Zhang 34   | or which acts as a regul<br>he presence of KIRT1, F<br>re required for cell tran<br>ise B phosphorylation s<br>the variant t(1;13) tran<br>protein is a transcription<br>bmed ID Journ<br>574948 Int J f<br>585441 J Leul                                   | ator of cell resp<br>OXO1 mediate<br>sition from pro<br>ites (Thr-24, Se<br>slocations gene<br>nal activator. D<br>nal                  | oonses to oxidative stress. FOXO1<br>s down-regulation of cyclin D1 and up-<br>liferative growth to quiescence. FOXO1<br>r-256, and Ser-319) that are conserved in<br>erate PAX3/FKHR and PAX7/FKHR fusion<br>efects in FOXO1 are a cause of<br>Application<br>WB       |   |  |                           |
| Notable Publications                            | FOXO 1, also named as FOXO 1A, FKH<br>factors. FOXO 1 is a transcription fact<br>interacts with LRPPRC and SIRT 1. In t<br>regulation of CDIKN1B levels which a<br>contains three predicted protein kina<br>other FOXO proteins. The t(2;13) and<br>proteins respectively. The resulting p<br>rhabdomyosarcoma type 2 (RMS2).<br>Author Pu<br>Xiaoyan Liu 31<br>Duobin Zhang 34<br>Linyi Shu 34<br>Storage:<br>Store at -20°C. Stable for one year af<br>Storage Buffer:<br>PBS with 0.02% sodium azide and 50 | or which acts as a regul<br>he presence of KIRT1, F<br>re required for cell tran<br>se B phosphorylation s<br>the variant t(1;13) tran<br>protein is a transcription<br>bmed ID Journ<br>574948 Int J 1<br>585441 J Leul<br>581420 Int J 1<br>ter shipment. | ator of cell resp<br>OXO 1 mediate<br>sition from pro<br>ites (Thr-24, Se<br>slocations gene<br>nal activator. D<br>nal<br>Activator. D | oonses to oxidative stress. FOXO1<br>s down-regulation of cyclin D1 and up-<br>liferative growth to quiescence. FOXO1<br>r-256, and Ser-319) that are conserved in<br>erate PAX3/FKHR and PAX7/FKHR fusion<br>efects in FOXO1 are a cause of<br>Application<br>WB<br>WB |   |  |                           |
|   | FOXO 1, also named as FOXO 1A, FKH<br>factors. FOXO 1 is a transcription fact<br>interacts with LRPPRC and SIRT 1. In t<br>regulation of CDIKN1B levels which a<br>contains three predicted protein kina<br>other FOXO proteins. The t(2;13) and<br>proteins respectively. The resulting p<br>rhabdomyosarcoma type 2 (RMS2).<br>Author Pu<br>Xiaoyan Liu 31<br>Duobin Zhang 34<br>Linyi Shu 34<br>Storage:<br>Store at -20°C. Stable for one year af<br>Storage Buffer:                                       | or which acts as a regul<br>he presence of KIRT1, F<br>re required for cell tran<br>se B phosphorylation s<br>the variant t(1;13) tran<br>protein is a transcription<br>bmed ID Journ<br>574948 Int J 1<br>585441 J Leul<br>581420 Int J 1<br>ter shipment. | ator of cell resp<br>OXO 1 mediate<br>sition from pro<br>ites (Thr-24, Se<br>slocations gene<br>nal activator. D<br>nal<br>Activator. D | oonses to oxidative stress. FOXO1<br>s down-regulation of cyclin D1 and up-<br>liferative growth to quiescence. FOXO1<br>r-256, and Ser-319) that are conserved in<br>erate PAX3/FKHR and PAX7/FKHR fusion<br>efects in FOXO1 are a cause of<br>Application<br>WB<br>WB |   |  |                           |

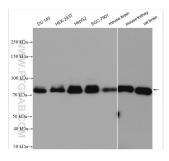
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com

in USA), or 1(312) 455-8498 (outside USA)

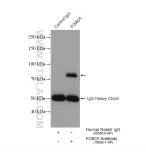
W: ptglab.com

Group brand and is not available to purchase from any other manufacturer.

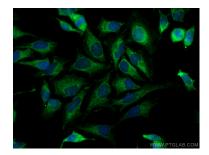
## Selected Validation Data



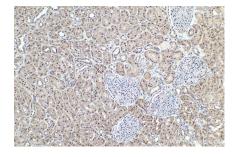
Various lysates were subjected to SDS PAGE followed by western blot with 18592-1-AP (FOXO1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



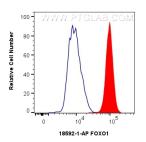
IP result of anti-FOXO1 (IP:18592-1-AP, 4ug; Detection:18592-1-AP 1:2000) with HepG2 cells lysate 960 ug.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using FOXO 1 antibody (18592-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffinembedded human kidney tissue slide using 18592-1-AP (FOXO 1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10^6 Daudi cells were intracellularly stained with 0.4 ug FOXO1 Polyclonal antibody (18592-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (3000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).