

For Research Use Only

# CoraLite® Plus 750-conjugated FOXO1 Recombinant antibody



Catalog Number: CL750-82997

## Basic Information

<b>Catalog Number:</b> CL750-82997	<b>GenBank Accession Number:</b> BC021981	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 2308	<b>CloneNo.:</b> 230183D1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q12778	<b>Recommended Dilutions:</b> WB 1:500-1:1000
<b>Isotype:</b> IgG	<b>Full Name:</b> forkhead box O1	<b>Excitation/Emission maxima wavelengths:</b> 755 nm / 780 nm
<b>Immunogen Catalog Number:</b> AG13296	<b>Calculated MW:</b> 655 aa, 70 kDa	
	<b>Observed MW:</b> 70-80 kDa	

## Applications

<b>Tested Applications:</b> WB	<b>Positive Controls:</b> WB : HEK-293 cells, HepG2 cells
<b>Species Specificity:</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).

## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

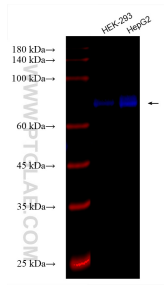
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with CL750-82997 (FOXO1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.