

For Research Use Only

# CoraLite® Plus 647-conjugated FOXO1 Polyclonal antibody



Catalog Number: CL647-18592

## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>CL647-18592       | <b>GenBank Accession Number:</b><br>BC021981 | <b>Purification Method:</b><br>Antigen affinity purification          |
| <b>Size:</b><br>1000 µg/ml                  | <b>GeneID (NCBI):</b><br>2308                | <b>Excitation/Emission maxima<br/>wavelengths:</b><br>654 nm / 674 nm |
| <b>Source:</b><br>Rabbit                    | <b>UNIPROT ID:</b><br>Q12778                 |   |
| <b>Isotype:</b><br>IgG                      | <b>Full Name:</b><br>forkhead box O1         |   |
| <b>Immunogen Catalog Number:</b><br>AG13296 | <b>Calculated MW:</b><br>655 aa, 70 kDa      |   |
|   | <b>Observed MW:</b><br>70-80 kDa             |   |

## Applications

**Tested Applications:**  
FC (Intra)

**Species Specificity:**  
human, mouse, rat

## 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:

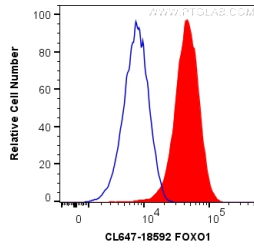
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**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.2 ug CoraLite® Plus 647 Anti-Human FOXO1 (CL647-18592) (red), or 0.2 ug CL647 rabbit Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).