

For Research Use Only

CoraLite® Plus 750-conjugated FOXO1 Recombinant antibody

Catalog Number: CL750-82997



Basic Information

Catalog Number: CL750-82997	GenBank Accession Number: BC021981	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 2308	CloneNo.: 230183D1
Source: Rabbit	UNIPROT ID: Q12778	Recommended Dilutions: WB 1:500-1:1000
Isotype: IgG	Full Name: forkhead box O1	Excitation/Emission maxima wavelengths: 755 nm / 780 nm
Immunogen Catalog Number: AG13296	Calculated MW: 655 aa, 70 kDa	
	Observed MW: 70-80 kDa	

Applications

Tested Applications: WB, FC (Intra)	Positive Controls: WB : HEK-293 cells, HepG2 cells
Species Specificity: 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).

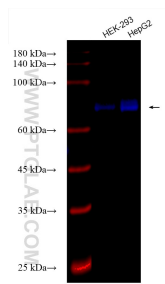
Storage

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

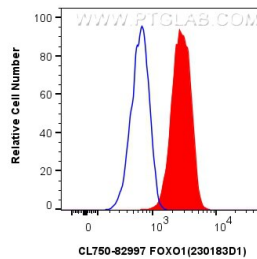
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



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.



1x10⁶ MOLT-4 cells were intracellularly stained with 0.4 ug Coralite® Plus 750-conjugated FOXO1 Recombinant antibody (CL750-82997, Clone:230183D1)(red), or 0.4 ug Isotype Control (CL750-30000) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).