

For Research Use Only

FOXP1 Recombinant monoclonal antibody

Catalog Number:86937-1-RR



Basic Information

Catalog Number: 86937-1-RR	GenBank Accession Number: BC131720	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 27086	CloneNo.: 243153D3
Source: Rabbit	UNIPROT ID: Q9H334	Recommended Dilutions: WB: 1:2000-1:10000 IF/ICC: 1:200-1:800 ChIP-qPCR: 1:10-1:100
Isotype: IgG	Full Name: forkhead box P1	
Immunogen Catalog Number: AG17045	Calculated MW: 677 aa, 75 kDa	
	Observed MW: 75-77 kDa, 65-67 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA, ChIP-qPCR	Positive Controls: WB : Daudi cells, Raji cells, Jurkat cells
Species Specificity: human	IF/ICC : Jurkat cells, ChIP-qPCR : Raji cells,

Background Information

FOXP1, also known as Mac-1-regulated forkhead, is a 677 amino acid protein, which forms homodimers and heterodimers with FOXP2 and FOXP4 (PubMed:25027557). Dimerization is required for DNA-binding. FOXP1 has an important function in neuronal development.9 Mutations of its gene, FOXP1, located on chromosome 3p14.1,7 can result in the development of autism spectrum disorder, intellectual disability, speech and language deficits as well as motor development delay. FOXP1 is also engaged in lung and esophagus morphogenesis, as well as in B-cell development.7,10 The widely researched role of FOXP1 in carcinogenesis is of great importance, although still unclear to some extent. FOXP1 exists some isoforms with MV 75-77 kDa, 65-67 kDa, 12 kDa.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

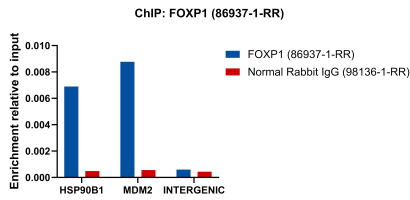
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

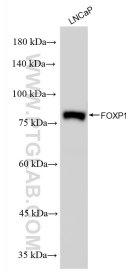
E: proteintech@ptglab.com
W: ptglab.com

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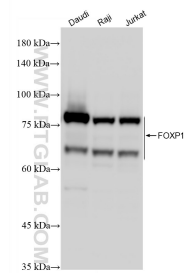
Selected Validation Data



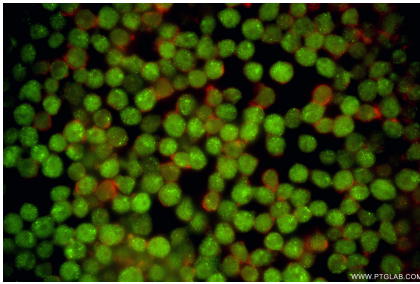
Chromatin was prepared from Raji cells. Cells were fixed with formaldehyde for 10 minutes. The ChIP was performed with 15 µg of cross-linked chromatin, 5 µg of FOXP1 (86937-1-RR) or 5 µg of Normal Rabbit IgG (98136-1-RR), and 20 µl of Protein A Magarose Beads. The immunoprecipitated DNA was quantified by real-time PCR.



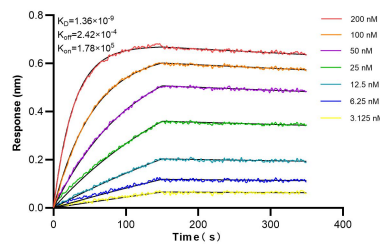
Various lysates were subjected to SDS PAGE followed by western blot with 86937-1-RR (FOXP1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using FOXP1 antibody (86937-1-RR, Clone: 243153D3) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Bi-layer interferometry (BLI) kinetic assays of 86937-1-RR against Human FOXP1 were performed. The affinity constant is 1.36 nM.