

For Research Use Only

LEF1 Polyclonal antibody

Catalog Number: 14972-1-AP

Featured Product

38 Publications



Basic Information

Catalog Number: 14972-1-AP	GenBank Accession Number: BC050632	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 700 µg/ml by Nanodrop;	GeneID (NCBI): 51176	Recommended Dilutions: WB 1:1000-1:4000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
Source: Rabbit	Full Name: Lymphoid enhancer-binding factor 1	
Isotype: IgG	Calculated MW: 37 kDa	
Immunogen Catalog Number: AG6882	Observed MW: 50-55 kDa, 65 kDa	

Applications

Tested Applications: IP, WB, ELISA	Positive Controls: WB : Jurkat cells, COLO 320 cells, NCCIT cells IP : SW 1990 cells,
Cited Applications: IF, IHC, IP, WB	
Species Specificity: human	
Cited Species: human, rat, mouse	

Background Information

Lymphoid enhancer-binding factor 1(LEF1) belongs to a family of regulatory proteins that share homology with high mobility group protein-1, and it's a nuclear protein expressed in pre-B and T cells. LEF1 has a role in the Wnt signaling pathway hair cell differentiation and follicle morphogenesis. Together with CTNNB1 and EP300, LEF1 activates transcription of target genes. Isoform 5 transcriptionally activates the fibronectin promoter, binds to and represses transcription from the E-cadherin promoter in a CTNNB1-independent manner, and is involved in reducing cellular aggregation and increasing cell migration of pancreatic cancer cells. Isoform 1 transcriptionally activates MYC and CCND1 expression and enhances the proliferation of pancreatic tumor cells. MECs can give rise to seven cell types of the SAE and SMGs following severe airway injury. MECs progressively adopted a basal cell phenotype on the SAE and established lasting progenitors capable of further regeneration following reinjury. MECs activate Wnt-regulated transcription factors (Lef-1/TCF7) following injury and Lef-1 induction in cultured MECs promotes transition to a basal cell phenotype. Surprisingly, dose-dependent MEC conditional activation of Lef-1 in vivopromoted self-limited airway regeneration in the absence of injury. Thus, modulating the Lef-1 transcriptional program in MEC-derived progenitors may have regenerative medicine applications for lung diseases. (<https://doi.org/10.1016/j.stem.2018.03.017>) The phosphorylation may affect the LEF1 protein's theoretical molecular weight when tested.40-70 kD bands have also been reported (PMID: 22261717; 17063141).

Notable Publications

Author	Pubmed ID	Journal	Application
Y Gong	25429621	Cell Death Dis	
Jia Peng	25394221	PLoS One	WB
Ziling Wang	32565825	Stem Cells Int	WB

Storage

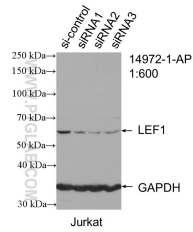
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

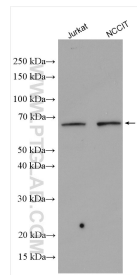
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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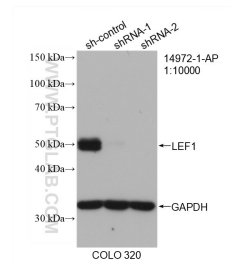
Selected Validation Data



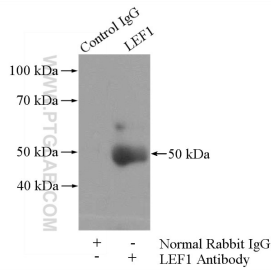
WB result of LEF1 antibody (14972-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-LEF1 transfected Jurkat cells.



Various lysates were subjected to SDS PAGE followed by western blot with 14972-1-AP (LEF1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



WB result of LEF1 antibody (14972-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-LEF1 transfected COLO 320 cells.



IP Result of anti-LEF1 (IP:14972-1-AP, 4 μ g; Detection:14972-1-AP 1:300) with SW 1990 cells lysate 2400 μ g.