For Research Use Only

LEF1 Polyclonal antibody Catalog Number: 28540-1-AP 4 Publications



Basic Information	Catalog Number: 28540-1-AP	GenBank Accession Number: BC050632	Purification Method: Antigen affinity purification
	Size:	GenelD (NCBI):	Recommended Dilutions:
	150ul , Concentration: 700 ug/ml by	51176	WB 1:5000-1:50000
	Nanodrop and 380 ug/ml by Bradford method using BSA as the standard; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG29841	ENSEMBL Gene ID: ENSG00000138795	IF/ICC 1:50-1:500
		UNIPROT ID: Q9UJU2	
		Full Name: lymphoid enhancer-binding factor 1 Calculated MW: 37 kDa	
		Applications	Tested Applications:
WB, IF/ICC, ELISA	WB: COLO		320 cells, SW480 cells, Jurkat cells
Cited Applications: WB	IF/ICC : HepG2 cells, A549 cells		
Species Specificity: human			
Cited Species: human, rat			
Background Information	mobility group protein-1, and it's a nuclear protein exprssed in pre-B and T cells. LEF1 has a role in the Wnt signaling pathway and hair cell differentiation and follicle morphogenesis. LEF1 exists as seven isoforms and we detects three isoforms with MW 44 kDa, 36 kDa and 23 kDa. 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 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 promoted transition to a basal cell phenotype. Surprisingly, dose-dependent MEC conditional activation of Lef-1in 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 affects LEF1 protein's theoretical molecular weight when tested.40-70 kD bands have also been reported (PMID:22261717;17063141).		
Notable Publications	Author Pub	med ID Journal	Application
	Xiong Shu 360	47666 Cancer Med	WB
		09498 Int J Neurosci	WB
	Yajun Luo 354	85210 Clin Transl Med	WB
	Storage:		

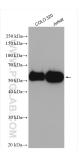
*** 20ul sizes contain 0.1% BSA

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)

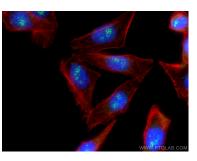
E: proteintech@ptglab.com W: ptglab.com

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

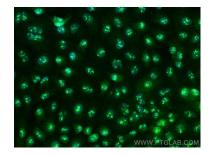
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 28540-1-AP (LEF 1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 28540-1-AP (LEF1 antibody), at dilution of 1:200 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed A549 cells using LEF1 antibody (28540-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).