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: 700 µg/ml	GeneID (NCBI): 51176	Recommended Dilutions: WB 1:5000-1:50000	
	Source: Rabbit	ENSEMBL Gene ID: ENSG00000138795	IF 1:50-1:500	
	lsotype: IgG	UNIPROT ID: Q9UJU2		
	Immunogen Catalog Number: AG29841	Full Name: lymphoid enhancer-binding factor 1 Calculated MW: 37 kDa		
		Observed MW: 50 kDa		
Applications	Tested Applications:	Positive C	Positive Controls:	
	Cited Applications:	WB : COLC IF : HepG2	IF : HepG2 cells, SW480 cells, Jurkat cells	
	WB Species Specificity: Human			
	Cited Species: human, rat			
Background Information	Lymphoid enhancer-binding factor 1(LEF 1) belongs to a family of regulatory protein share homology with high mobility group protein-1, and it's a nuclear protein exprssed in pre-B and T cells. LEF 1 has a role in the Wnt signaling pathway and hair cell differentiation and follicle morphogenesis. LEF 1 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-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 affects LEF1 protein's theoretical molecular weight when tested.40-70 kD bands have also been reported (PMID:22261717;17063141).			
	pathway and hair cell differential three isoforms with MW 44 kDa, 3 of target genes. Isoform 5 transcri from the E-cadherin promoter in a and increasing cell migration of p expression and enhances prolifer and SMGs following severe airwa established lasting progenitors ca transcription factors (Lef-1/TCF7) basal cell phenotype. Surprisingly airway regeneration in the absen progenitors may have regenerativ (https://doi.org/10.1016/j.stem.2 weight when tested.40-70 kD ban	tion and follicle morphogenesis. LEF 1 4 6 kDa and 23 kDa. Together with CTNN ptionally activates the fibronectin pro CTNNB1-independent manner, and is pancreatic cancer cells. Isoform 1 transe ation of pancreatic tumor cells. MECs c y injury. MECs progressively adopted a spable of further regeneration followin following injury and Lef-1 induction ir y, dose-dependent MEC conditional act ce of injury. Thus, modulating the Lef- ve medicine applications for lung dise. 018.03.017) The phosphorylation may ds have also been reported (PMID:2220	exists as seven isoforms and we detects IB1 and EP300, LEF1 activates transcription moter, binds to and represses transcription involved in reducing cellular aggregation criptionally activates MYC and CCND1 an give rise to seven cell types of the SAE a basal cell phenotype on the SAE and greinjury. MECs activate Wnt-regulated n cultured MECs promoted transition to a tivation of Lef-1in vivopromoted self-limited transcriptional program in MEC-derived ases. affects LEF1 protein's theoretical molecular 61717;17063141).	
Notable Publications	pathway and hair cell differential three isoforms with MW 44 kDa, 3 of target genes. Isoform 5 transcri from the E-cadherin promoter in a and increasing cell migration of p expression and enhances prolifer and SMGs following severe airwa established lasting progenitors ca transcription factors (Lef-1/TCF7) basal cell phenotype. Surprisingly airway regeneration in the absen progenitors may have regenerativ (https://doi.org/10.1016/j.stem.2 weight when tested.40-70 kD ban	tion and follicle morphogenesis. LEF 1 4 6 kDa and 23 kDa. Together with CTNN ptionally activates the fibronectin pro CTNNB1-independent manner, and is pancreatic cancer cells. Isoform 1 transc ation of pancreatic tumor cells. MECs of y injury. MECs progressively adopted a pable of further regeneration followin following injury and Lef-1 induction ir y, dose-dependent MEC conditional act ce of injury. Thus, modulating the Lef- we medicine applications for lung dise 018.03.017) The phosphorylation may ds have also been reported (PMID:2220 Pubmed ID Journal	exists as seven isoforms and we detects IB1 and EP300, LEF1 activates transcription moter, binds to and represses transcription involved in reducing cellular aggregation criptionally activates MYC and CCND1 an give rise to seven cell types of the SAE a basal cell phenotype on the SAE and greinjury. MECs activate Wnt-regulated n cultured MECs promoted transition to a tivation of Lef-1in vivopromoted self-limited t transcriptional program in MEC-derived ases. affects LEF1 protein's theoretical molecular 51717;17063141).	
Notable Publications	pathway and hair cell differential three isoforms with MW 44 kDa, 3 of target genes. Isoform 5 transcri from the E-cadherin promoter in a and increasing cell migration of p expression and enhances prolifer and SMGs following severe airwa established lasting progenitors ca transcription factors (Lef-1/TCF7) basal cell phenotype. Surprisingly airway regeneration in the absen progenitors may have regenerativ (https://doi.org/10.1016/j.stem.2 weight when tested.40-70 kD ban Author Xiong Shu	tion and follicle morphogenesis. LEF 1 4 6 kDa and 23 kDa. Together with CTNN ptionally activates the fibronectin pro i CTNNB1-independent manner, and is soancreatic cancer cells. Isoform 1 transe ation of pancreatic tumor cells. MECs of y injury. MECs progressively adopted a apable of further regeneration followin following injury and Lef-1 induction ir y, dose-dependent MEC conditional act ce of injury. Thus, modulating the Lef-3 ve medicine applications for lung dise 018.03.017) The phosphorylation may ds have also been reported (PMID:2220 Pubmed ID Journal 36047666 Cancer Med	exists as seven isoforms and we detects IB1 and EP300, LEF1 activates transcription moter, binds to and represses transcription involved in reducing cellular aggregation criptionally activates MYC and CCND1 an give rise to seven cell types of the SAE a basal cell phenotype on the SAE and greinjury. MECs activate Wnt-regulated n cultured MECs promoted transition to a tivation of Lef-1in vivopromoted self-limite. L transcriptional program in MEC-derived ases. affects LEF1 protein's theoretical molecular 61717;17063141). Application WB	
Notable Publications	pathway and hair cell differential three isoforms with MW 44 kDa, 3 of target genes. Isoform 5 transcri from the E-cadherin promoter in a and increasing cell migration of p expression and enhances prolifer and SMGs following severe airwa established lasting progenitors ca transcription factors (Lef-1/TCF7) basal cell phenotype. Surprisingly airway regeneration in the absen progenitors may have regenerativ (https://doi.org/10.1016/j.stem.2 weight when tested.40-70 kD ban Author Xiong Shu Yin Liu	tion and follicle morphogenesis. LEF 1 6 kDa and 23 kDa. Together with CTNN ptionally activates the fibronectin pro CTNNB1-independent manner, and is pancreatic cancer cells. Isoform 1 transc ation of pancreatic tumor cells. MECs of y injury. MECs progressively adopted a pable of further regeneration followin following injury and Lef-1 induction ir y, dose-dependent MEC conditional act ce of injury. Thus, modulating the Lef- we medicine applications for lung dise 018.03.017) The phosphorylation may ds have also been reported (PMID:2220 Pubmed ID Journal 36047666 Cancer Med 32009498 Int J Neurosci	exists as seven isoforms and we detects IB1 and EP300, LEF1 activates transcription moter, binds to and represses transcription involved in reducing cellular aggregation criptionally activates MYC and CCND1 an give rise to seven cell types of the SAE a basal cell phenotype on the SAE and ag reinjury. MECs activate Wnt-regulated n cultured MECs promoted transition to a civation of Lef-1in vivopromoted self-limited affects LEF1 protein's theoretical molecular S1717;17063141). Application WB WB	
Notable Publications	pathway and hair cell differential three isoforms with MW 44 kDa, 3 of target genes. Isoform 5 transcri from the E-cadherin promoter in a and increasing cell migration of p expression and enhances prolifer and SMGs following severe airwa established lasting progenitors ca transcription factors (Lef-1/TCF7) basal cell phenotype. Surprisingly airway regeneration in the absen progenitors may have regenerativ (https://doi.org/10.1016/j.stem.2 weight when tested.40-70 kD ban Author Xiong Shu Yin Liu Yajun Luo	tion and follicle morphogenesis. LEF 1 6 kDa and 23 kDa. Together with CTNN ptionally activates the fibronectin pro 7 CTNNB1-independent manner, and is pancreatic cancer cells. Isoform 1 transmation of pancreatic tumor cells. MECs or y injury. MECs progressively adopted a spable of further regeneration following following injury and Lef-1 induction ir y, dose-dependent MEC conditional act ce of injury. Thus, modulating the Lef-1 ve medicine applications for lung dise. 018.03.017) The phosphorylation may ds have also been reported (PMID:2220 Pubmed ID Journal 36047666 Cancer Med 32009498 Int J Neurosci 35485210 Clin Transl Med	exists as seven isoforms and we detects IB1 and EP300, LEF 1 activates transcription moter, binds to and represses transcription involved in reducing cellular aggregation criptionally activates MYC and CCND1 an give rise to seven cell types of the SAE a basal cell phenotype on the SAE and g reinjury. MECs activate Wht-regulated n cultured MECs promoted transition to a tivation of Lef-1in vivopromoted self-limite L transcriptional program in MEC-derived ases. affects LEF 1 protein's theoretical molecular 51717;17063141).	

W: ptgcn.com

T: 4006900926

E: Proteintech-CN@ptglab.com

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).