



## Rabbit Anti-phospho-LEF1 (Ser42) antibody

SL9842R

<b>Product Name:</b>	phospho-LEF1 (Ser42)
<b>Chinese Name:</b>	磷酸化淋巴增强因子-1抗体
<b>Alias:</b>	LEF1 (phospho S42); LEF1 (phospho Ser42); p-LEF1(phospho S42); p-LEF1(Ser42); lymphoid enhancing factor-1; Transcription factor T cell specific 1 alpha ; DKFZp586H0919; LEF 1; LEF1; Lymphoid enhancer binding factor 1; T cell specific transcription factor 1 alpha; TCF 1 alpha; TCF1 alpha; TCF1alpha; TCF1-alpha; LEF1_HUMAN; Lymphoid enhancer-binding factor 1; LEF-1; T cell-specific transcription factor 1-alpha.
<b>文献引用</b> <b>PubMed</b> :	<p><b>Specific References(1)</b>SL9842R has been referenced in 1 publications.</p> <p><b>[IF=2.86]</b>Fu, Qiang, et al. "Proteome Profile and Quantitative Proteomic Analysis of Buffalo (Bubalus bubalis) Follicular Fluid during Follicle Development."International Journal of Molecular Sciences 17.5 (2016): 618.<b>WB;Other Species.</b></p> <p style="text-align: right;"><a href="#">PubMed:27136540</a></p>
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Rabbit,
<b>Applications:</b>	WB=1:500-2000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	44kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthesised phosphopeptide derived from human LEF1 around the phosphorylation site of Ser42:EI(p-S)HP

<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>This gene encodes a transcription factor belonging to a family of proteins that share homology with the high mobility group protein-1. The protein encoded by this gene can bind to a functionally important site in the T-cell receptor-alpha enhancer, thereby conferring maximal enhancer activity. This transcription factor is involved in the Wnt signaling pathway, and it may function in hair cell differentiation and follicle morphogenesis. Mutations in this gene have been found in somatic sebaceous tumors. This gene has also been linked to other cancers, including androgen-independent prostate cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009].</p> <p><b>Function:</b> Participates in the Wnt signaling pathway. Activates transcription of target genes in the presence of CTNNB1 and EP300. May play a role in hair cell differentiation and follicle morphogenesis. TLE1, TLE2, TLE3 and TLE4 repress transactivation mediated by LEF1 and CTNNB1. Regulates T-cell receptor alpha enhancer function. Binds DNA in a sequence-specific manner. PIAG antagonizes both Wnt-dependent and Wnt-independent activation by LEF1 (By similarity). Isoform 3 lacks the CTNNB1 interaction domain and may be an antagonist for Wnt signaling. 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.</p> <p><b>Subunit:</b> Binds the armadillo repeat of CTNNB1 and forms a stable complex. Interacts with EP300, TLE1 and PIASG (By similarity). Binds ALYREF/THOC4, MDFI and MDFIC. Interacts with NLK.</p> <p><b>Subcellular Location:</b> Nucleus. Note=Found in nuclear bodies upon PIASG binding.</p> <p><b>Tissue Specificity:</b> Detected in thymus. Not detected in normal colon, but highly expressed in colon cancer biopsies and colon cancer cell lines. Expressed in several pancreatic tumors and weakly expressed in normal pancreatic tissue. Isoforms 1 and 5 are detected in several pancreatic cell lines.</p> <p><b>Post-translational modifications:</b></p>

Phosphorylated at Thr-155 and/or Ser-166 by NLK. Phosphorylation by NLK at these sites represses LEF1-mediated transcriptional activation of target genes of the canonical Wnt signaling pathway.

**Similarity:**

Belongs to the TCF/LEF family.  
Contains 1 HMG box DNA-binding domain.

**SWISS:**

Q9UJU2

**Gene ID:**

51176

**Database links:**

[Entrez Gene: 51176](#)Human

[Omid: 153245](#)Human

[SwissProt: Q9UJU2](#)Human

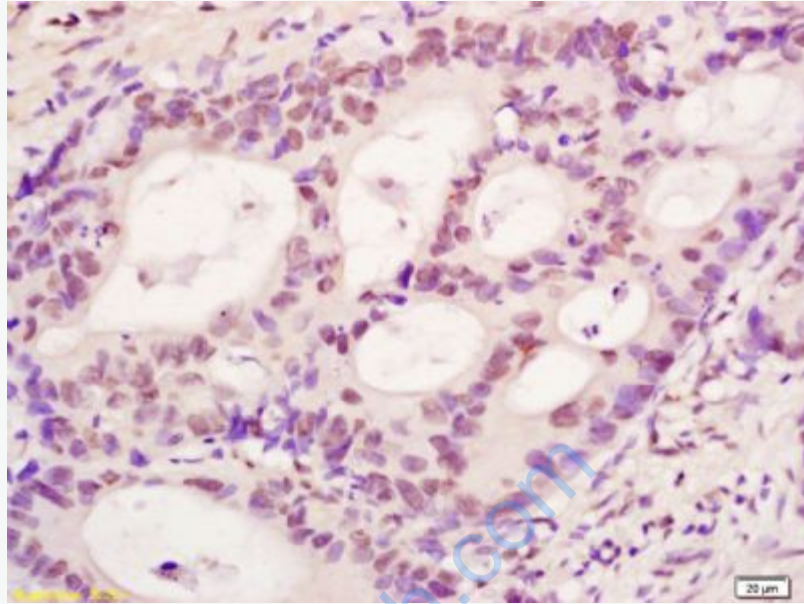
[Unigene: 726506](#)Human

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

lef-1是淋巴增强因子/T-cell

factor(LEF/TCF)家族的成员之一,属于高迁移率组分蛋白家族。lef-1也是一个重要的转录因子,是Wnt信号通路的核心成分。



**Picture:**

Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-phospho-LEF1(Ser42) Polyclonal Antibody,

Unconjugated(SL9842R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining