



LEF-1 (phospho Ser42) Polyclonal Antibody

Catalog No	BYab-01310
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC
Gene Name	LEF1
Protein Name	Lymphoid enhancer-binding factor 1
Immunogen	The antiserum was produced against synthesized peptide derived from human LEF-1 around the phosphorylation site of Ser42. AA range:8-57
Specificity	Phospho-LEF-1 (S42) Polyclonal Antibody detects endogenous levels of LEF-1 protein only when phosphorylated at S42.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000;IHC-p 1:50-300
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	LEF1; Lymphoid enhancer-binding factor 1; LEF-1; T cell-specific transcription factor 1-alpha; TCF1-alpha
Observed Band	55kD
Cell Pathway	Nucleus . Found in nuclear bodies upon PIASG binding. .
Tissue Specificity	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.
Function	alternative products:Additional isoforms seem to exist,domain:Proline-rich and acidic regions are implicated in the activation functions of RNA polymerase II transcription factors.,function: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

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(By similarity). Isoform 3 lacks the CTNNB1 interaction domain and may be an antagonist for Wnt signaling.,similarity:Belongs to the TCF/LEF family.,similarity:Contains 1 HMG box DNA-binding domain.,subcellular location:Found in nuclear bodies upon PIASG binding.,subunit

Background

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],

matters needing attention

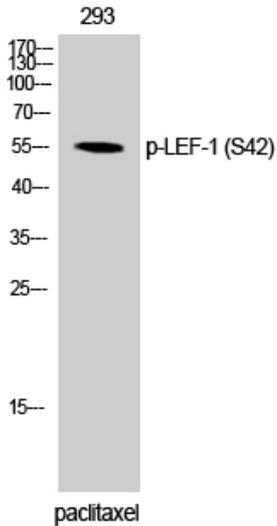
Avoid repeated freezing and thawing!

Usage suggestions

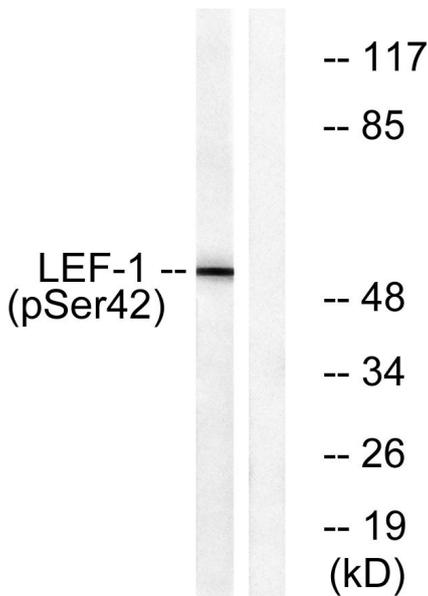
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



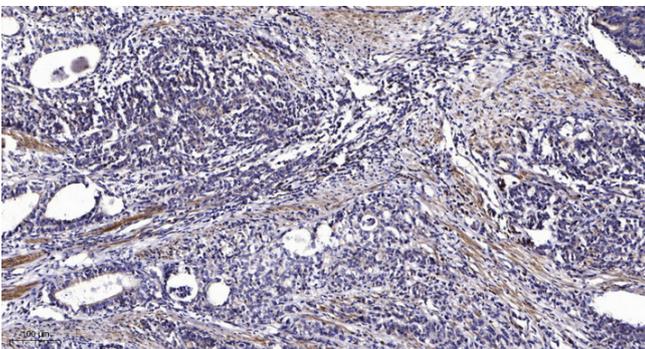
Products Images



Western Blot analysis of 293 cells using Phospho-LEF-1 (S42) Polyclonal Antibody



Western blot analysis of lysates from 293 cells treated with paclitaxel 1uM 24h, using LEF-1 (Phospho-Ser42) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human Gastric adenocarcinoma. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).