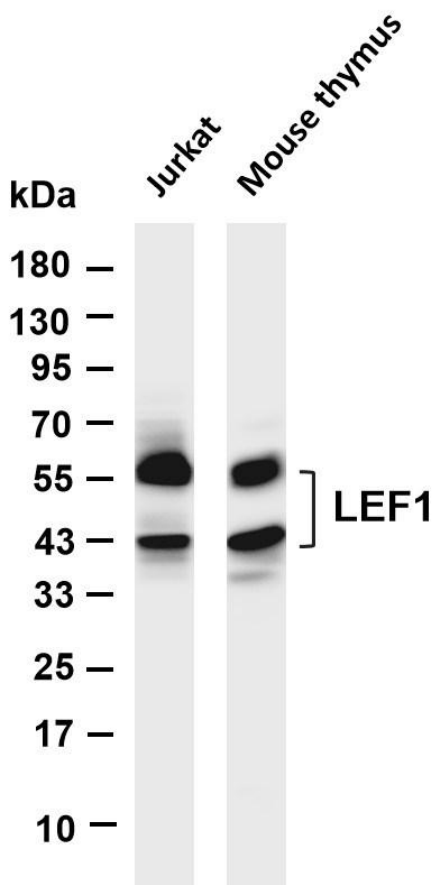
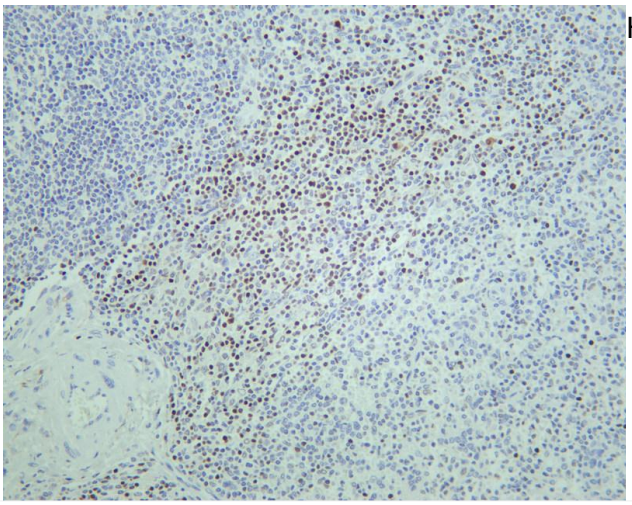
LEF-1 Rabbit mAb

Catalog No	YP-rAb-17612
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,IP,ELISA
Gene Name	LEF1
Protein Name	Lymphoid enhancer-binding factor 1
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:1000-1:4000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; IP 1:50-1:200; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	LEF1 ; Lymphoid enhancer-binding factor 1 ; LEF-1 ; T cell-specific transcription factor 1-alpha ; TCF1-alpha
Observed Band	45-60kD
Calculated Molecular Weight	44kD
Cell Pathway	Nucleus
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 (By similarity). Isoform 3 lacks the CTNNB1

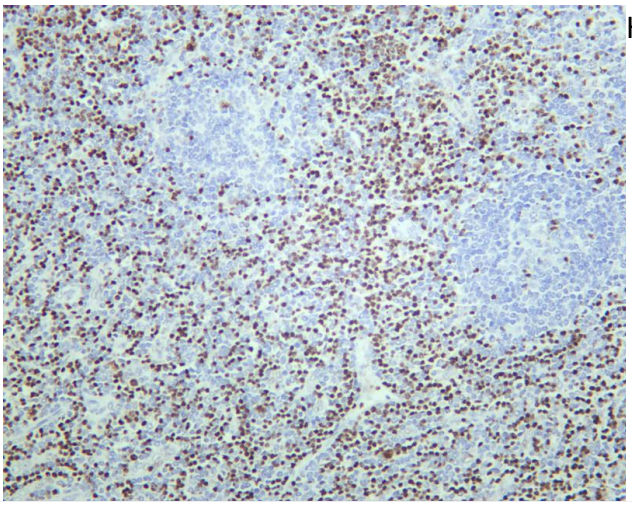
	interaction domain and may be an antagonist for Wnt signaling.,similarity:Belongs to the TCF/LEF family.,similarity:Contains 1 HMG box DNA-binding domain.,subcellular location:Found in nuclear bodies upon PIASG binding.,subunit:Binds the armadillo repeat of CTNNB1 and forms a stable complex. Interacts with EP300, TLE1 and PIASG (By similarity). Binds THOC4, MDFI and MDFIC.,tissue specificity:Detected in thymus. Not detected in normal colon, but highly expressed in colon cancer biopsies and colon cancer cell lines.,
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.



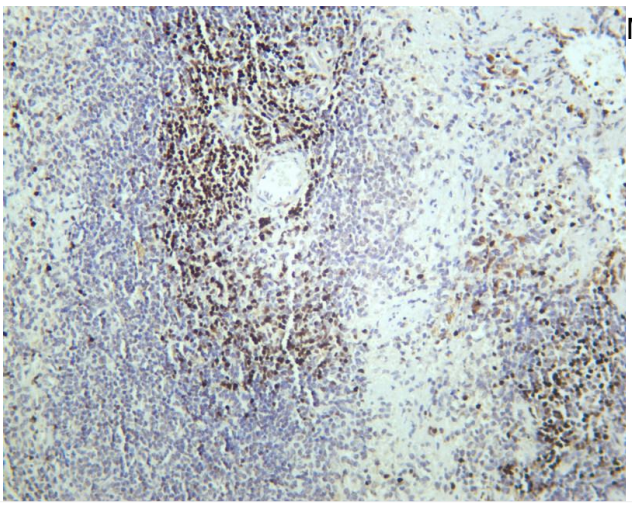
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-LEF1 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Jurkat Lane 2: Mouse thymus Predicted band size: 44kDa Observed band size: 45-60kDa



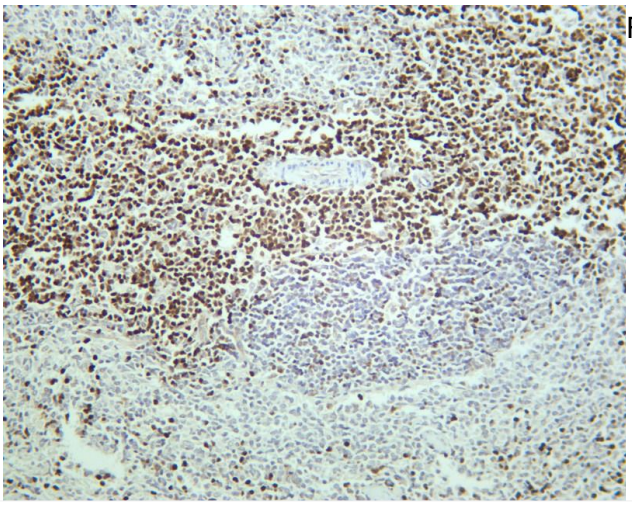
Human spleen was stained with anti-LEF1 rabbit antibody



Human tonsil was stained with anti-LEF1 rabbit antibody



Mouse spleen was stained with anti-LEF1 rabbit antibody



Rat spleen was stained with anti-LEF1 rabbit antibody