abcam

Product datasheet

Anti-LEF1 antibody [EPR2029Y] ab137872

RabMAb

8 References 7 Images

Overview

Product name	Anti-LEF1 antibody [EPR2029Y]
Description	Rabbit monoclonal [EPR2029Y] to LEF1
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF, IHC-FoFr
Species reactivity	**Reacts with:** Rat, Human
Immunogen	Synthetic peptide corresponding to residues in Human LEF1.
Positive control	WB: Jurkat cell lysate. IHC-P: Human tonsil tissue.
General notes	This product is a recombinant rabbit monoclonal antibody. Produced using Abcam's RabMAb® technology. RabMAb® technology is covered by the following U.S. Patents, No. 5,675,063 and/or 7,429,487. Alternative versions available: Anti-LEF1 antibody (HRP) [EPR2029Y] (ab197623)

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR2029Y
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab137872** in the following tested applications.

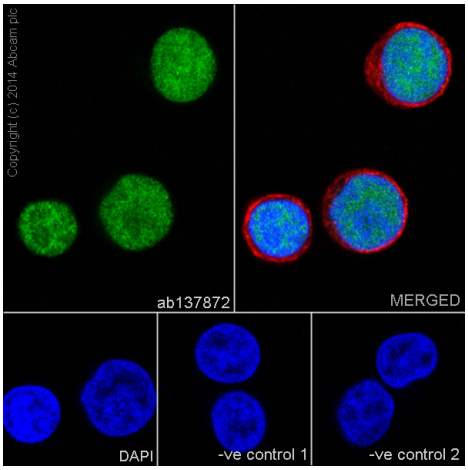
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 44 kDa.
IHC-P		1/100 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See protocols (link: http://www.abcam.com/protocols/ihc-antigen-retrieval-protocol).
ICC/IF		1/500.
IHC-FoFr		Use at an assay dependent concentration. PubMed: 24586192

Target

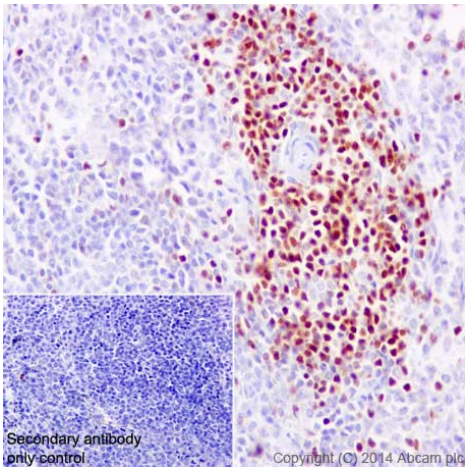
Function	Participates in the Wnt signaling pathway. Activates transcription of target genes in the presence of CTNNB1 and EP300. May play a role in hair cell differentiation and follicle morphogenesis. TLE1, TLE2, TLE3 and TLE4 repress transactivation mediated by LEF1 and CTNNB1. Regulates T-cell receptor 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. 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.
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.
Sequence similarities	Belongs to the TCF/LEF family. Contains 1 HMG box DNA-binding domain.
Domain	Proline-rich and acidic regions are implicated in the activation functions of RNA polymerase II transcription factors.
Cellular localization	Nucleus. Found in nuclear bodies upon PIASG binding.

Anti-LEF1 antibody [EPR2029Y] images



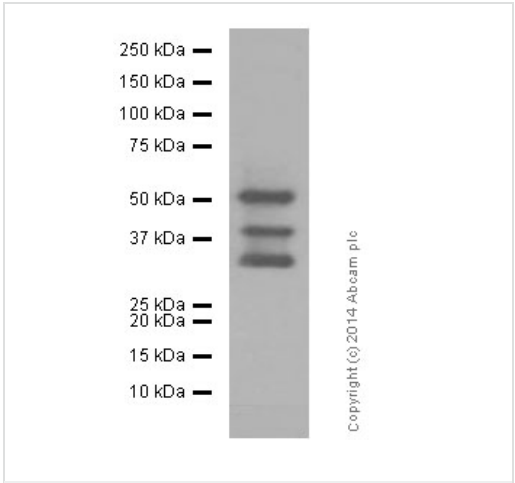
Immunocytochemistry/ Immunofluorescence - Anti-LEF1 antibody [EPR2029Y] (ab137872)

Immunofluorescence staining of Jurkat cells with purified ab137872 at a working dilution of 1 in 500, counter-stained with DAPI. Tubulin was stained with mouse anti-tubulin at a dilution of 1/1000 (ab7291) and Alexa Fluor® 594 goat anti-mouse at a dilution of 1/500 (ab150120) . The secondary antibody was ab150077 Alexa Fluor® 488 goat anti rabbit, used at a dilution of 1 in 500. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative controls are shown in the bottom middle and right hand panels - for the first negative control, purified ab137872 was used at a dilution of 1/200 followed by an Alexa Fluor® 555 goat anti-mouse antibody at a dilution of 1/500 and for the second negative control mouse primary antibody (ab7291) and anti-rabbit secondary antibody (ab15007) were used.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LEF1 antibody [EPR2029Y] (ab137872)

Immunohistochemical staining of paraffin embedded rat spleen with purified ab137872 at a working dilution of 1/500. The secondary antibody used is ab97051, a HRP-conjugated goat anti-rabbit IgG (H+L), at a dilution of 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was perfomed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.



Western blot - Anti-LEF1 antibody [EPR2029Y] (ab137872)

Anti-LEF1 antibody [EPR2029Y] (ab137872) at 1/2000 dilution (purified) + Rat thymus tissue lysate at 20 µg

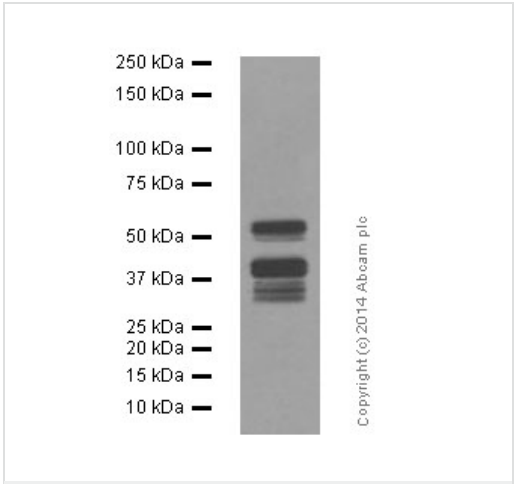
Secondary

HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size : 44 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-LEF1 antibody [EPR2029Y] (ab137872)

Anti-LEF1 antibody [EPR2029Y] (ab137872) at 1/10000 dilution (purified) + Jurkat cell lysate at 10 µg

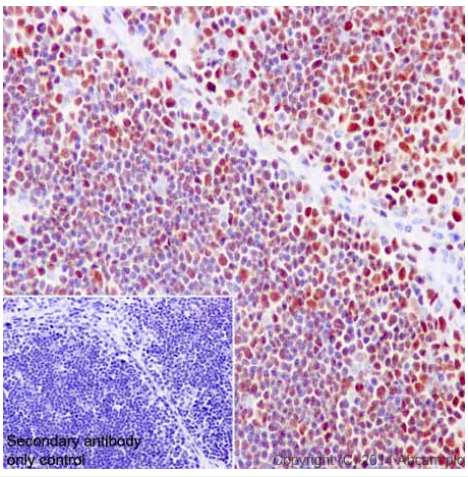
Secondary

HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size : 44 kDa

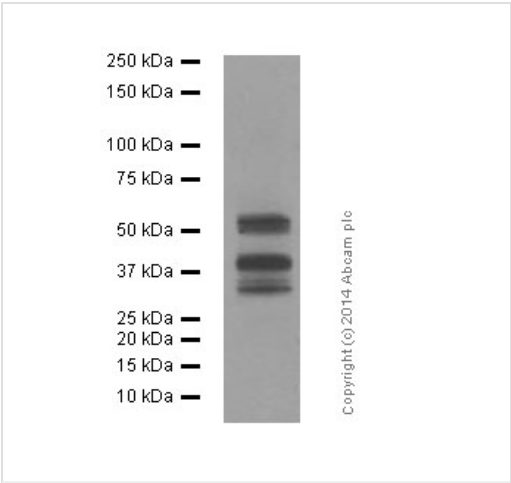
Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LEF1 antibody [EPR2029Y] (ab137872)

Immunohistochemical staining of paraffin embedded human thymus with purified ab137872 at a working dilution of 1/500. The secondary antibody used is ab97051, a HRP-conjugated goat anti-rabbit IgG (H+L), at a dilution of 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was perfomed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.



Western blot - Anti-LEF1 antibody [EPR2029Y] (ab137872)

Anti-LEF1 antibody [EPR2029Y] (ab137872) at 1/1000 dilution (purified) + Human fetal thymus lysate at 10 µg

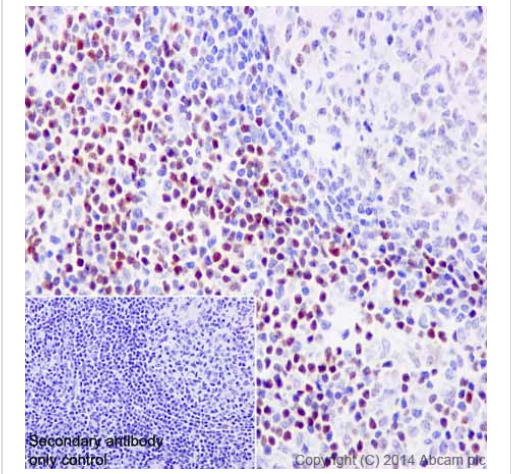
Secondary

HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size : 44 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LEF1 antibody [EPR2029Y] (ab137872)

Immunohistochemical staining of paraffin embedded human tonsil with purified ab137872 at a working dilution of 1/500. The secondary antibody used is ab97051, a HRP-conjugated goat anti-rabbit IgG (H+L), at a dilution of 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was perfomed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.