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LEF1 Antibody

Rabbit mAb
Catalog # AP90389

Product Information

Application	WB, IHC, IF, FC, ICC, IP, IHF
Primary Accession	Q9UJU2
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	LEF1_HUMAN; Lymphoid enhancer binding factor 1; TCF1 alpha; TCF10; Transcription factor T cell specific 1 alpha; TCF7L3;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	44201

Additional Information

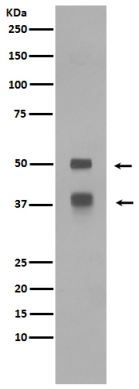
Dilution	WB: 1:1000~1:2000 IHC: 1:50~1:200 ICC/IF: 1:100~1:500 IP: 1:50 FC: 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human LEF1
Description	Participates in the Wnt signaling pathway. Activates transcription of target genes in the presence of CTNNB1 and EP300. 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).
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	LEF1 (HGNC:6551)
Function	Transcription factor that binds DNA in a sequence-specific manner (PubMed:2010090). Participates in the Wnt signaling pathway (By similarity). Activates transcription of target genes in the presence of CTNNB1 and EP300 (By similarity). PIAG antagonizes both Wnt-dependent and Wnt-independent activation by LEF1 (By similarity). TLE1, TLE2, TLE3 and TLE4 repress transactivation mediated by LEF1 and CTNNB1 (PubMed:11266540). Regulates T-cell receptor alpha enhancer function (PubMed:19653274). Required for IL17A expressing gamma-delta T-cell maturation and development, via binding to regulator loci of BLK to modulate expression (By similarity). Acts as a positive regulator of odontoblast differentiation during mesenchymal tooth germ formation, expression is repressed during the bell stage by

	MSX1-mediated inhibition of CTNNB1 signaling (By similarity). May play a role in hair cell differentiation and follicle morphogenesis (By similarity).
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00267}. Note=Found in nuclear bodies upon PIASG binding.
Tissue Location	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.

Images



Western blot analysis of LEF1 expression in Jurkat cell lysate.

Image not found : 202311/AP90389-IHC.jpg

Immunohistochemical analysis of paraffin-embedded human spleen, using LEF1 Antibody.