

LEF1 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP12048a**Specification**

LEF1 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [O9UJU2](#)**LEF1 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 51176**Other Names**

Lymphoid enhancer-binding factor 1, LEF-1, T cell-specific transcription factor 1-alpha, TCF1-alpha, LEF1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

LEF1 Antibody (N-term) Blocking peptide - 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.

LEF1 Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

LEF1 Antibody (N-term) Blocking peptide - Images**LEF1 Antibody (N-term) Blocking peptide - 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.

LEF1 Antibody (N-term) Blocking peptide - References

Gutierrez, A. Jr., et al. Blood 116(16):2975-2983(2010) Kalsi, G., et al. Hum. Mol. Genet. 19(12):2497-2506(2010) Chen, Q.Y., et al. J. Immunol. 184(9):5047-5054(2010) Beagle, B., et al. PLoS ONE 5 (7), E11821 (2010) ; Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :