10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

LEF1 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant LEF1.
Catalog # AT2692a

Product Information

Application	WB, IF, E
Primary Accession	Q9UJU2
Other Accession	NM_016269
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	5A3
Calculated MW	44201

Additional Information

Gene ID	51176
Other Names	Lymphoid enhancer-binding factor 1, LEF-1, T cell-specific transcription factor 1-alpha, TCF1-alpha, LEF1
Target/Specificity	LEF1 (NP_057353, 14 a.a. ~ 123 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	LEF1 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

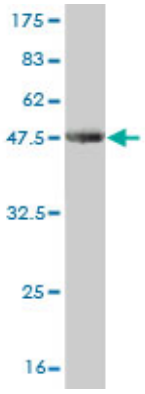
Background

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.

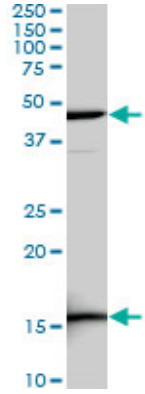
References

Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from Scandinavia. Jugessur A, et al. PLoS One, 2010 Jul 9. PMID 20634891.Human CD1D gene expression is regulated by LEF-1 through distal promoter regulatory elements. Chen QY, et al. J Immunol, 2010 May 1. PMID 20363964.A systematic gene-based screen of chr4q22-q32 identifies association of a novel susceptibility gene, DKK2, with the quantitative trait of alcohol dependence symptom counts. Kalsi G, et al. Hum Mol Genet, 2010 Jun 15. PMID 20332099.Pathway-based approaches to imaging genetics association studies: Wnt signaling, GSK3beta substrates and major depression. Inkster B, et al. Neuroimage, 2010 Nov 15. PMID 20219685.Inactivation of LEF1 in T-cell acute lymphoblastic leukemia. Gutierrez A, et al. Blood, 2010 Apr 8. PMID 20124220.

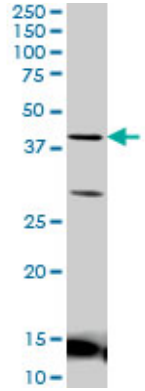
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .

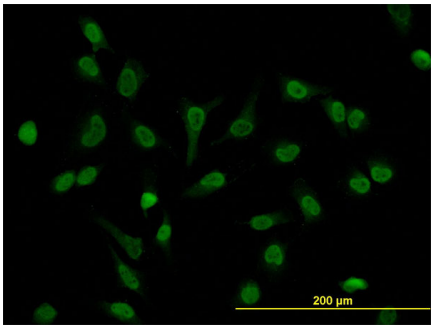


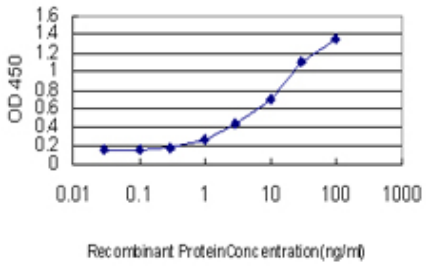
LEF1 monoclonal antibody (M03), clone 5A3. Western Blot analysis of LEF1 expression in HepG2 ((Cat # AT2692a)



LEF1 monoclonal antibody (M03), clone 5A3 Western Blot analysis of LEF1 expression in Jurkat ((Cat # AT2692a)

Immunofluorescence of monoclonal antibody to LEF1 on HeLa cell. [antibody concentration 10 ug/ml]





Detection limit for recombinant GST tagged LEF1 is approximately 0.3ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.