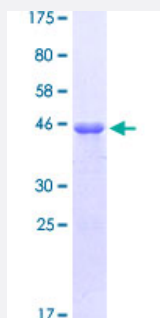


# LEF1 (Human) Recombinant Protein (Q03)

Catalog # H00051176-Q03

Size 25 ug, 10 ug

## Applications



## Specification

|                                      |                                                                                                            |
|--------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>           | Human LEF1 partial ORF (NP_057353, 33 a.a. - 138 a.a.) recombinant protein with GST-tag at N-terminal.     |
| <b>Sequence</b>                      | QKEKIFAEISHPEEEGLADIKSSLVNESEIIPASNGHEVARQAQTSQEPYHDKAREHPDDGKHPD<br>GGLYNKGPSYSSYSGYIMPMNNDPYMSNGSLSPPIPT |
| <b>Host</b>                          | Wheat Germ (in vitro)                                                                                      |
| <b>Theoretical MW (kDa)</b>          | 37.29                                                                                                      |
| <b>Interspecies Antigen Sequence</b> | Mouse (97); Rat (96)                                                                                       |
| <b>Preparation Method</b>            | <a href="#">in vitro wheat germ expression system</a>                                                      |
| <b>Purification</b>                  | Glutathione Sepharose 4 Fast Flow                                                                          |
| <b>Quality Control Testing</b>       | 12.5% SDS-PAGE Stained with Coomassie Blue                                                                 |
| <b>Storage Buffer</b>                | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                   |
| <b>Storage Instruction</b>           | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                            |
| <b>Note</b>                          | Best use within three months from the date of receipt of this protein.                                     |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — LEF1

Entrez GeneID [51176](#)

GeneBank Accession# [NM\\_016269](#)

Protein Accession# [NP\\_057353](#)

Gene Name LEF1

Gene Alias DKFZp586H0919, TCF1ALPHA

Gene Description lymphoid enhancer-binding factor 1

Omim ID [153245](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** LEF1 is a nuclear protein that is expressed in pre-B and T cells. It binds to a functionally important site in the T-cell receptor-alpha (TCRA; MIM 186880) enhancer and confers maximal enhancer activity. LEF1 belongs to a family of regulatory proteins that share homology with high mobility group protein-1 (HMG1; MIM 163905) (Waterman et al., 1991 [PubMed 2010090]; van Genderen et al., 1994 [PubMed 7958926]).[supplied by OMIM]

**Other Designations** lymphoid enhancer binding factor-1

## Pathway

- [Acute myeloid leukemia](#)
- [Adherens junction](#)
- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)

- [Basal cell carcinoma](#)
- [Colorectal cancer](#)
- [Endometrial cancer](#)
- [Melanogenesis](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Thyroid cancer](#)
- [Wnt signaling pathway](#)

## Disease

- [Alcoholism](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Craniofacial Abnormalities](#)
- [Depressive Disorder](#)
- [Genetic Predisposition to Disease](#)
- [Heart Defects](#)
- [Mouth Abnormalities](#)