



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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LEF-1beta catenin. Mouse Monoclonal Antibody

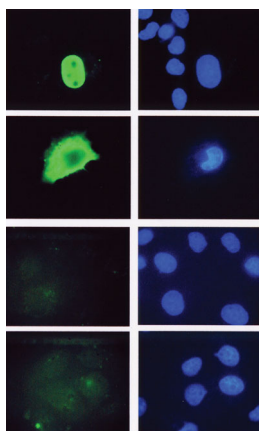
**BACKGROUND**

The immunogen for the anti-LEF-1 antibody was a full length protein. Lymphoid Enhancer Factor -1 is a transcription factor of the High Mobility Group of DNA binding proteins. It is one member of a family of four proteins referred to as LEF/TCF transcription factors (LEF-1, TCF-1, TCF-3 and TCF-4). These factors play a crucial role in WNT/Wingless signaling, a signal transduction cascade that directs cell differentiation. Aberrant activation of the WNT/Wingless pathway is also a root cause in the genesis of certain cancers such as colon cancer, melanoma and breast cancer. LEF-1 is expressed during development in many different differentiating tissues, and in a few tissues after birth. LEF-1 expression is required for proper development of breast, teeth, hair, whiskers and the trigeminal nerve. It is redundant with TCF-1 (for T Cell Factor-1) for correct development of T lymphocytes in the thymus. LEF-1 is a 399 amino acid protein that appears as a cluster of [polypeptides ranging in size between 55-57 kD on SDS-PAGE analysis. Alternative splice forms of LEF-1 and other LEF/TCF family members have been identified, but the expression pattern and relative abundance of these alternative forms have not been well studied. They can appear on westerns as smaller immunoreactive forms. Clone REMB1 recognizes the b-catenin binding domain of LEF-1.

**IMMUNOGEN**

Full length recombinant LEF-1 protein.

Immunofluorescence staining of Cos-1 cells transfected with (top to bottom) full length hLEF-1, a LEF-1 mutant missing the nuclear localization signal, TCF-4 and TCF-1. Cells were stained with Exalpha's LEF-1 antibody, clone REMB1 cat. # T100M and visualized with FITC conjugated mouse IgG. DAPI was used to detect all nuclei. The LEF-1 clone REMB1 recognized an epitope in the beta catenin binding domain that is present only in LEF-1.



**ORDERING INFORMATION**

**CATALOG NUMBER**

T100MS

**SIZE**

100 µg

**FORM**

Unconjugated

**HOST/CLONE**

Mouse Clone REMB1

**FORMULATION**

Provided as solution in phosphate buffered saline with 0.08% sodium azide

**CONCENTRATION**

See vial for concentration

**ISOTYPE**

IgG1

**APPLICATIONS**

Western Blot, Immunofluorescence, IHC (paraffin)

**SPECIES REACTIVITY**

Human, Mouse

**ACCESSION NUMBER**

Q9UJU2, Human

**POSITIVE CONTROL/TISSUE EXPRESSION**

Jurkat cell lysate

**COMMENTS**

Antibody can be used for Western blotting (1-5  $\mu$ g/ml) and immunofluorescence on paraformaldehyde-fixed cells (1:1000 or 1  $\mu$ g/ml). Optimal concentration should be evaluated by serial dilutions.

**PURIFICATION**

Protein A/G Chromatography

**SHIP CONDITIONS**

Ship at ambient temperature, freeze upon arrival

**STORAGE CUSTOMER**

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

**STABILITY**

Products are stable for one year from purchase when stored properly

**REFERENCES**

Hsu SC; Galceran J; Grosschedl R. "Modulation of transcriptional regulation by LEF-1 in response to Wnt-1 signaling and association with beta-catenin." *Mol Cell Biol*, 18(8):4807-18 1998 Aug

IHC Reference:

Dorfman, David M. et al. , Loss of Expression of the WNT/Beta Catenin Signaling Pathway Transcription Factors Lymphoid Enhancer Factor-1 (LEF-1) and T Cell factor-1 (TCF-10 in a Subset of Peripheral T Cell Lymphomas, *The American Journal of Pathology*, 2003, pp 1538-1544.