



PRODUCT DATA SHEET

Product: Anti-LEF/TCF, Polyclonal

Cat. No: PC-053 (100 µg)

Background:

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 transduction cascade that directs cell differentiation. Aberrant activation of the WNT/Wingless pathway is also involved in the genesis of some cancers, including colon cancer, melanoma, and breast cancer.

LEF-1 is expressed during development in many 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 (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 gels. 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 may appear on Western blots as smaller immunoreactive forms.

Specificity:

Antibody reacts with human LEF-1, TCF-1, TCF-3, and TCF-4

Species Reactivity:

Human, other species not tested.

Ig Isotype:

Sheep IgG

Immunogen:

Full length LEF

Format:

100 µg purified IgG in PBS with 0.02% sodium azide

Storage and Stability:

Store at -20°C. Aliquot to avoid repeated freeze thaw cycles. Stable for one year if stored frozen.

Applications and Suggested Dilutions:

- Western blot: Use at 1-5 µg/ml

The optimal dilution for a specific application should be determined by the researcher.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.