



PRODUCT DATA SHEET

Product: Anti-LEF-1 (all isoforms), clone 1C3.1D10

Cat. No.: MC-883 (100 µg)

Background:

Lymphoid Enhancer Factor-1 (LEF-1) is an HMG 1/2-like DNA binding/bending protein and is a member of the LEF/TCF transcription factor family. There are four LEF/TCF family members in mammalian systems (LEF-1, TCF-1, TCF-3 and TCF-4), and orthologs to these factors have been identified in many different species. LEF/TCFs are downstream mediators of Wnt/Wingless signals. Wnt signaling drives cell polarity, cell fate and cell growth decisions in embryonic tissues and in post-natal tissues that continue to develop from mitotically active stem cell precursors. Misregulation of Wnt signaling is also implicated as a root cause of many different cancers, such as colon cancer, melanoma, breast cancer, prostate cancer and others.

Specificity:

This antibody detects all isoforms of LEF-1 by Western blot. Does not crossreact with TCF-1 or TCF-4.

Species Reactivity:

Human. Others not tested.

Ig Isotype:

Mouse IgG₁

Immunogen:

Recombinant full length LEF-1 protein.

Epitope:

This antibody recognizes an epitope in amino acids 256-308 of LEF-1. This region is between the trans-activation domain and the HMG binding domain of LEF-1 and is conserved in all LEF-1 isoforms.

Format:

Purified antibody 100 µg at 1.0 mg/mL. Provided as 0.2 µm sterile filtered solution in phosphate buffered saline with 0.08% sodium azide.

Storage:

Store at -20°C. Aliquot to avoid freeze/thaw cycles.

Applications and Suggested Dilutions:

■ Western blot

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.