



MOUSE ANTI- LEF1 (ALL ISOFORMS) MONOCLONAL ANTIBODY

CATALOG NUMBER:	MAB3750	QUANTITY:	100 µg
LOT NUMBER:		CONCENTRATION:	1 mg/ml
CLONE NAME:	1C3.1D10	HOST/ISOTYPE:	Mouse IgG ₁
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. This antibody recognizes an epitope in amino acids 256-308 of LEF-1. This region is between the transactivation domain and the HMG binding domain of LEF-1 and is conserved in all LEF-1 isoforms.		
SPECIFICITY:	Recognizes human LEF-1 (Lymphoid Enhancer Factor-1) protein. Does not cross-react with TCF-1 or TCF-4.		
IMMUNOGEN:	Recombinant full length LEF-1 protein.		
APPLICATIONS:	Western blot Optimal working dilutions must be determined by end user.		
SPECIES REACTIVITY:	Human. Reactivity with other species has not been determined.		
FORMAT:	Purified immunoglobulin.		
PRESENTATION:	Provided as solution in phosphate buffered saline with 0.08% sodium azide.		
STORAGE/HANDLING:	Maintain at -20°C in undiluted aliquots for up to 12 months from date of receipt. Avoid repeated freeze/thaw cycles.		
REFERENCES:	1. Riese, J., et al., "LEF-1, a nuclear factor coordinating signaling inputs from wingless and decapentaplegic." <i>Cell</i> 1997, 88, 777-787 2. Giese, K., et al. "Functional analysis of DNA bending and unwinding by the high mobility group domain of LEF-1." <i>Proc. Natl. Acad. Sci. USA</i> 1997, 94, 12845-12850 3. Behrens, J., et al. "Functional interaction of beta-catenin with the transcription factor LEF-1." <i>Nature</i> 1996, 382, 638-642 4. Giese, K. and Grosschedl, R. "LEF-1 contains an activation domain that stimulates transcription only in a specific context of factor-binding sites." <i>EMBO J.</i> 1993, 12, 4667-4676		

Important Note: During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.

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PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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