

#9383 Store at -20°C

TCF/LEF Family Antibody Sampler Kit

1 Kit (4 x 20 microliters)



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For Research Use Only. Not for Use in Diagnostic Procedures.

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
TCF1/TCF7 (C63D9) Rabbit mAb	2203	20 µl	48, 50 kDa	Rabbit IgG
TCF3/TCF7L1 (D15G11) Rabbit mAb	2883	20 µl	78 kDa	Rabbit
TCF4/TCF7L2 (C48H11) Rabbit mAb	2569	20 µl	58, 79 kDa	Rabbit IgG
LEF1 (C12A5) Rabbit mAb	2230	20 µl	25-58 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description

The TCF/LEF Family Antibody Sampler Kit provides an economical means of detecting total protein from the TCF/LEF1 family members. The kit contains enough primary and secondary antibodies to perform two Western blots with each antibody.

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Background

LEF1 and TCF are members of the high mobility group (HMG) DNA binding protein family of transcription factors which consists of the following: Lymphoid Enhancer Factor 1 (LEF1), T Cell Factor 1 (TCF1, also known as TCF7), TCF3 (also known as TCF7L1) and TCF4 (also known as TCF7L2) (1). LEF1 and TCF1/TCF7 were originally identified as important factors regulating early lymphoid development (2) that act downstream in Wnt signaling. LEF1 and TCF bind to Wnt response elements to provide docking sites for β -catenin, which translocates to the nucleus to promote the transcription of target genes upon activation of Wnt signaling (3). LEF1 and TCF proteins are dynamically expressed during development and aberrant activation of the Wnt signaling pathway is involved in many types of cancers including colon cancer (4,5).

Background References

1. Waterman, M.L. (2004) *Cancer Metastasis Rev* 23, 41-52.
2. Schilham, M.W. and Clevers, H. (1998) *Semin Immunol* 10, 127-32.
3. Brantjes, H. et al. (2002) *Biol Chem* 383, 255-61.
4. Reya, T. and Clevers, H. (2005) *Nature* 434, 843-50.
5. Logan, C.Y. and Nusse, R. (2004) *Annu Rev Cell Dev Biol* 20, 781-810.

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