

LBP-9 (C-20): sc-50829

BACKGROUND

The long terminal repeat binding protein-1 (LBP-1) mammalian family of transcription factors are proteins that stimulate transcription in HeLa cells from the major late promoter of simian virus 40 *in vitro*. The two related human LBP-1 genes are TFCP2A, which encodes the alternatively spliced transcripts LBP-1a and LBP-1b, and TFCP2C, which encodes LBP-1c and LBP-1d. LBP-9, also designated transcription factor CP2-like 1 (TFCP2L1), is a protein of 479 amino acids. LBP-9 shows 83% sequence homology with LBP-1b and acts as a suppressor factor inhibiting the stimulation effect of LBP-1b. LBP-9 may regulate the P450scc reporter activity through the -155/-131 element.

REFERENCES

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- Huang, N. and Miller, W.L. 2000. Cloning of factors related to HIV-inducible LBP proteins that regulate steroidogenic factor-1-independent human placental transcription of the cholesterol side-chain cleavage enzyme, P450scc. *J. Biol. Chem.* 275: 2852-2858.
- Rodda, S., Sharma, S., Scherer, M., Chapman, G. and Rathjen, P. 2001. CRTR-1, a developmentally regulated transcriptional repressor related to the CP2 family of transcription factors. *J. Biol. Chem.* 276: 3324-3332.
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- Sato, F., Yasumoto, K., Kimura, K., Numayama-Tsuruta, K. and Sogawa, K. 2005. Heterodimerization with LBP-1b is necessary for nuclear localization of LBP-1a and LBP-1c. *Genes Cells* 10: 861-870.

CHROMOSOMAL LOCATION

Genetic locus: TFCP2L1 (human) mapping to 2q14.2.

SOURCE

LBP-9 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of LBP-9 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-50829 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

LBP-9 (C-20) is recommended for detection of LBP-9 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

LBP-9 (C-20) is also recommended for detection of LBP-9 in additional species, including bovine.

Suitable for use as control antibody for LBP-9 siRNA (h): sc-60924, LBP-9 shRNA Plasmid (h): sc-60924-SH and LBP-9 shRNA (h) Lentiviral Particles: sc-60924-V.

LBP-9 (C-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

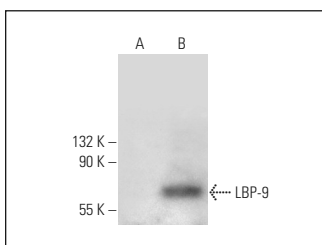
Molecular Weight of LBP-9: 48 kDa.

Positive Controls: LBP-9 (h): 293T Lysate: sc-369957.

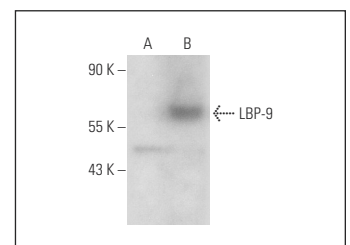
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



LBP-9 (C-20): sc-50829. Western blot analysis of LBP-9 expression in non-transfected: sc-117752 (A) and human LBP-9 transfected: sc-369957 (B) 293T whole cell lysates.



LBP-9 (C-20): sc-50829. Western blot analysis of LBP-9 expression in non-transfected: sc-117752 (A) and human LBP-9 transfected: sc-369957 (B) 293T whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.