## SANTA CRUZ BIOTECHNOLOGY, INC.

# LBP1 (P-20): sc-70071



#### BACKGROUND

LBP1 (upstream-binding protein 1), also designated UBP1, LBP1A or LBP1B, is a 540 amino acid protein that belongs to the grh/CP2 family (grainyhead transcription factor family). LBP1 is a transcriptional activator that regulates the placental expression of CYP11A1 and activates the hemoglobin globin promoter in erythroid cells. LBP1 is responsible for repressing transcription of HIV-1 by binding to and preventing TFIID from interacting with its promoter region. Null expression of LBP1 causes uterine growth retardation in mice embryos suggesting a critical role in extraembryonic angiogenesis. LBP1 localizes to the nucleus and is expressed in adrenal tissue, Hep G2, JEG-3 and HeLa cell lines. It forms two natural variants by alternative splicing. LBP1 can form homodimers as well as heterodimers with LBP-9. LBP-9 suppresses the expression of LBP1.

## REFERENCES

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- Parekh, V., McEwen, A., Barbour, V., Takahashi, Y., Rehg, J.E., Jane, S.M. and Cunningham, J.M. 2004. Defective extraembryonic angiogenesis in mice lacking LBP1A, a member of the grainyhead family of transcription factors. Mol. Cell. Biol. 24: 7113-7129.
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#### CHROMOSOMAL LOCATION

Genetic locus: UBP1 (human) mapping to 3p22.3; Ubp1 (mouse) mapping to 9 F3.

#### SOURCE

LBP1 (P-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of LBP1 of human origin.

## STORAGE

Store at 4° C, \*\*D0 NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## **RESEARCH USE**

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

#### PRODUCT

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-70071 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-70071 X, 200  $\mu$ g/0.1 ml.

### **APPLICATIONS**

LBP1 (P-20) is recommended for detection of LBP1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

LBP1 (P-20) is also recommended for detection of LBP1 in additional species, including porcine.

Suitable for use as control antibody for LBP1 siRNA (h): sc-75413, LBP1 siRNA (m): sc-75414, LBP1 shRNA Plasmid (h): sc-75413-SH, LBP1 shRNA Plasmid (m): sc-75414-SH, LBP1 shRNA (h) Lentiviral Particles: sc-75413-V and LBP1 shRNA (m) Lentiviral Particles: sc-75414-V.

LBP1 (P-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of LBP1: 60 kDa.

Positive Controls: Daudi cell lysate: sc-2415.

## **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) Immunofluo-rescence: use donkey anti-goat IgG-FITC: sc-2783 (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.

#### PROTOCOLS

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