

LTBP-3 (H-210): sc-98276

BACKGROUND

LTBP-3 (latent TGF β -binding protein 3) is a structural component of connective tissue microfibrils that plays an essential role in TGF β 1 secretion and targeting. LTBP-3 is present at high levels in human heart, skeletal muscle, prostate and ovaries and in certain osteosarcoma and fibroblastic cell lines. Human LTBP-3 localizes to chromosome position 11q13.1.

REFERENCES

1. Yin, W., Smiley, E., Germiller, J., Mecham, R.P., Florer, J.B., Wenstrup, R.J. and Bonadio, J. 1995. Isolation of a novel latent transforming growth factor- β binding protein gene (LTBP-3). *J. Biol. Chem.* 270: 10147-10160.
2. Yin, W., Smiley, E. and Bonadio, J. 1998. Alternative splicing of LTBP-3. *Biochem. Biophys. Res. Commun.* 245: 454-458.
3. Dabovic, B., Chen, Y., Colarossi, C., Zambuto, L., Obata, H. and Rifkin, D.B. 2002. Bone defects in latent TGF β binding protein LTBP-3 null mice; a role for Ltbp in TGF β presentation. *J. Endocrinol.* 175: 129-141.
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6. Chen, Y., Dabovic, B., Colarossi, C., Santori, F.R., Lilic, M., Vukmanovic, S. and Rifkin, D.B. 2003. Growth retardation as well as spleen and thymus involution in latent TGF β binding protein LTBP-3 null mice. *J. Cell. Physiol.* 196: 319-325.
7. Kantola, A.K., Keski-Oja, J. and Koli, K. 2005. Induction of human LTBP-3 promoter activity by TGF β 1 is mediated by Smad3/4 and AP-1 binding elements. *Gene* 363: 142-150.
8. Colarossi, C., Chen, Y., Obata, H., Jurukovski, V., Fontana, L., Dabovic, B. and Rifkin, D.B. 2005. Lung alveolar septation defects in LTBP-3-null mice. *Am. J. Pathol.* 167: 419-428.
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CHROMOSOMAL LOCATION

Genetic locus: LTBP3 (human) mapping to 11q13.1; Ltbp3 (mouse) mapping to 19 B.

SOURCE

LTBP-3 (H-210) is a rabbit polyclonal antibody raised against amino acids 1041-1250; deletion 1082-1129 mapping near the C-terminus of LTBP-3 of human origin.

PRODUCT

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

APPLICATIONS

LTBP-3 (H-210) is recommended for detection of LTBP-3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

LTBP-3 (H-210) is also recommended for detection of LTBP-3 in additional species, including canine and porcine.

Suitable for use as control antibody for LTBP-3 siRNA (h): sc-106921, LTBP-3 siRNA (m): sc-149138, LTBP-3 shRNA Plasmid (h): sc-106921-SH, LTBP-3 shRNA Plasmid (m): sc-149138-SH, LTBP-3 shRNA (h) Lentiviral Particles: sc-106921-V and LTBP-3 shRNA (m) Lentiviral Particles: sc-149138-V.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

SELECT PRODUCT CITATIONS

1. Langton, A.K., Sherratt, M.J., Griffiths, C.E. and Watson, R.E. 2012. Differential expression of elastic fibre components in intrinsically aged skin. *Biogerontology* 13: 37-48.

STORAGE

Store at 4° C, ****DO 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.

PROTOCOLS

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


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Try **LTBP-3 (H-11): sc-390913**, our highly recommended monoclonal alternative to LTBP-3 (H-210).