

LCORL (P-25): sc-133730

BACKGROUND

LCORL (ligand dependent nuclear receptor corepressor-like), also known as transcription factor MLR1, STQL13, MLR1, LCOR-like protein, MBLK1-related protein or FLJ30696, is a 602 amino acid protein which localizes to the nucleus and may play a role in spermatogenesis. LCORL has high homology with honeybee transcription factor Mblk1, and also binds and activates transcription from the same DNA elements as honeybee Mblk1. LCORL is highly expressed in testis, specifically in seminiferous tubules and spermatocytes, and is expressed at lower levels in heart, liver and kidney. LCORL contains one HTH psq-type DNA-binding domain, and two novel loci which may be associated with the length of the human trunk and hip axis. Three LCORL isoforms exist as a result of alternative splicing. The gene encoding LCORL maps to human chromosome 4p15.32.

REFERENCES

1. Kunieda, T., et al. 2003. Identification and characterization of Mlr1,2: two mouse homologues of Mblk-1, a transcription factor from the honeybee brain. *FEBS Lett.* 535: 61-65.
2. Weedon, M.N., et al. 2008. Genome-wide association analysis identifies 20 loci that influence adult height. *Nat. Genet.* 40: 575-583.
3. Gudbjartsson, D.F., et al. 2008. Many sequence variants affecting diversity of adult human height. *Nat. Genet.* 40: 609-615.
4. Sovio, U., et al. 2009. Genetic determinants of height growth assessed longitudinally from infancy to adulthood in the northern Finland birth cohort 1966. *PLoS Genet.* 5: e1000409.
5. Soranzo, N., et al. 2009. Meta-analysis of genome-wide scans for human adult stature identifies novel Loci and associations with measures of skeletal frame size. *PLoS Genet.* 5: e1000445.
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CHROMOSOMAL LOCATION

Genetic locus: Lcorl (mouse) mapping to 5 B3.

SOURCE

LCORL (P-25) is a Protein A purified rabbit polyclonal antibody raised against synthetic LCORL peptide of mouse origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

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.

APPLICATIONS

LCORL (P-25) is recommended for detection of LCORL of mouse, rat and canine 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for LCORL siRNA (m): sc-146686, LCORL shRNA Plasmid (m): sc-146686-SH and LCORL shRNA (m) Lentiviral Particles: sc-146686-V.

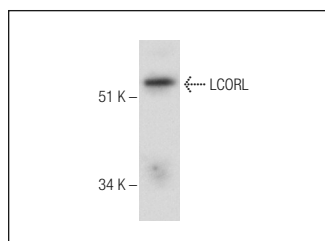
Molecular Weight of LCORL isoforms: 67/24/35 kDa.

Positive Controls: Mouse testis extract: sc-2405 or mouse hypothalamus tissue extract.

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).

DATA



LCORL (P-25): sc-133730. Western blot analysis of LCORL expression in mouse hypothalamus tissue extract.

PROTOCOLS

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