

LUC7L (S-17): sc-66244

BACKGROUND

LUC7L (LUC7-like 1), also called SR+89 or putative SR protein LUC7B1, is a 371 amino acid member of the LUC7 family. A homolog of the yeast protein, mammalian LUC7L localizes to the nucleus via its arginine/serine-rich domain. Although ubiquitously expressed, LUC7L is rarely detected in adult skeletal muscle. Forced expression of LUC7L in skeletal muscle inhibits myogenesis *in vitro*. Three isoforms exist for LUC7L. Isoform 1 represents the full length protein, isoform 2 is truncated at amino acid 325 and isoform 3 contains a variation in which the first 20 amino acids have been replaced by a different sequence of 3 amino acids.

REFERENCES

1. Tufarelli, C., Frischauf, A.M., Hardison, R., Flint, J. and Higgs, D.R. 2001. Characterization of a widely expressed gene (LUC7-LIKE; LUC7L) defining the centromeric boundary of the human α -globin domain. *Genomics* 71: 307-314.
2. Tufarelli, C., Stanley, J.A., Garrick, D., Sharpe, J.A., Ayyub, H., Wood, W.G. and Higgs, D.R. 2003. Transcription of antisense RNA leading to gene silencing and methylation as a novel cause of human genetic disease. *Nat. Genet.* 34: 157-165.

CHROMOSOMAL LOCATION

Genetic locus: LUC7L (human) mapping to 16p13.3; Luc7l (mouse) mapping to 17 B1.

SOURCE

LUC7L (S-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of LUC7L of mouse origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-66244 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LUC7L (S-17) is recommended for detection of LUC7L of mouse 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for LUC7L siRNA (h): sc-62569, LUC7L siRNA (m): sc-62570, LUC7L shRNA Plasmid (h): sc-62569-SH, LUC7L shRNA Plasmid (m): sc-62570-SH, LUC7L shRNA (h) Lentiviral Particles: sc-62569-V and LUC7L shRNA (m) Lentiviral Particles: sc-62570-V.

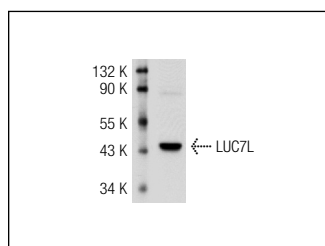
Molecular Weight of LUC7L: 44 kDa.

Positive Controls: mouse brain extract: sc-2253.

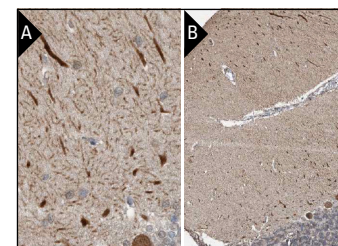
RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



LUC7L (S-17): sc-66244. Western blot analysis of LUC7L expression in mouse brain tissue extract.



LUC7L (S-17): sc-66244. Immunoperoxidase staining of formalin fixed, paraffin-embedded human cerebellum showing cytoplasmic staining of Purkinje cells at high (A) and low (B) magnification. Kindly provided by The Swedish Human Protein Atlas (HPA) program.

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.

MONOS
Satisfaction
Guaranteed

Try **LUC7L (43-1): sc-101075**, our highly recommended monoclonal alternative to LUC7L (S-17).