

EURL (S-18): sc-83612

BACKGROUND

First isolated in Gallus gallus retina and lens, EURL (early undifferentiated retina and lens), also known as C21orf91 of YG81, is a 297 amino acid protein that contains a putative carboxy-terminal coiled-coil domain. With highest expression in embryonic dorsal retina and, during later embryonic stages, the anterior epithelial cells of the lens, it is suspected that EURL may play a role in cell determination and differentiation. The gene encoding EURL maps to the long arm of chromosome 21, which houses approximately 300 genes and comprises nearly 1.5% of the human genome. Chromosome 21-associated disorders include Alzheimer's Disease, amyotrophic lateral sclerosis and, most notably, Down Syndrome (also known as trisomy 21).

REFERENCES

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5. Godbout, R., Andison, R., Katyal, S. and Bisgrove, D.A. 2003. Isolation of a novel cDNA enriched in the undifferentiated chick retina and lens. *Dev. Dyn.* 227: 409-415.
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CHROMOSOMAL LOCATION

Genetic locus: C21orf91 (human) mapping to 21q21.1; D16Erd472e (mouse) mapping to 16 C3.1.

SOURCE

EURL (S-18) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of EURL of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-83612 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

EURL (S-18) is recommended for detection of EURL of mouse, rat and 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).

EURL (S-18) is also recommended for detection of EURL in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for EURL siRNA (h): sc-91525, EURL siRNA (m): sc-144960, EURL shRNA Plasmid (h): sc-91525-SH, EURL shRNA Plasmid (m): sc-144960-SH, EURL shRNA (h) Lentiviral Particles: sc-91525-V and EURL shRNA (m) Lentiviral Particles: sc-144960-V.

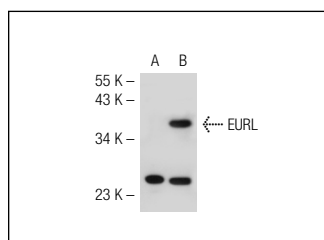
Molecular Weight of EURL: 34 kDa.

Positive Controls: EURL (h): 293 Lysate: sc-113251 or A-431 nuclear extract: sc-2122.

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.

DATA



EURL (S-18): sc-83612. Western blot analysis of EURL expression in non-transfected: sc-117752 (A) and human EURL transfected: sc-113251 (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.