

Raly (D-14): sc-85865

BACKGROUND

Raly, also known as hnRNP associated with lethal yellow homolog, autoantigen p542 or heterogeneous nuclear ribonucleoprotein C-like 2 (hnRNPL2), is a 306 amino acid protein belonging to the RRM HNRPC family. Localized to the nucleus, Raly is thought to be an RNA-binding protein involved in pre-mRNA splicing. Phosphorylated upon DNA damage, Raly has been found to be a subunit of the spliceosome C complex. Raly is also an autoantigen that is cross-reactive with an Epstein-Barr virus protein. Raly is expressed at higher levels in pancreas, liver, skeletal muscle, lung, brain, heart and kidney with lower levels found in placenta. Produced by alternative splicing, Raly is expressed as two isoforms.

REFERENCES

1. Vaughan, J.H., et al. 1995. Epstein-Barr virus-induced autoimmune responses. I. Immunoglobulin M autoantibodies to proteins mimicking and not mimicking Epstein-Barr virus nuclear antigen-1. *J. Clin. Invest.* 95: 1306-1315.
2. Rhodes, G.H., et al. 1997. The p542 gene encodes an autoantigen that cross-reacts with EBNA-1 of the Epstein Barr virus and which may be a heterogeneous nuclear ribonucleoprotein. *J. Autoimmun.* 10: 447-454.
3. Khrebtukova, I., et al. 1999. Alternative processing of the human and mouse raly genes(1). *Biochim. Biophys. Acta* 1447: 107-112.
4. Jurica, M.S., et al. 2002. Purification and characterization of native spliceosomes suitable for three-dimensional structural analysis. *RNA* 8: 426-439.
5. Lim, J., et al. 2006. A protein-protein interaction network for human inherited ataxias and disorders of Purkinje cell degeneration. *Cell* 125: 801-814.
6. Olsen, J.V., et al. 2006. Global, *in vivo*, and site-specific phosphorylation dynamics in signaling networks. *Cell* 127: 635-648.
7. Beranova-Giorgianni, S., et al. 2006. Phosphoproteomic analysis of the human pituitary. *Pituitary* 9: 109-120.

CHROMOSOMAL LOCATION

Genetic locus: RALY (human) mapping to 20q11.22; Raly (mouse) mapping to 2 H1.

SOURCE

Raly (D-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Raly of human origin.

STORAGE

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

PROTOCOLS

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

PRODUCT

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

Blocking peptide available for competition studies, sc-85865 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Raly (D-14) is recommended for detection of Raly 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).

Raly (D-14) is also recommended for detection of Raly in additional species, including porcine.

Suitable for use as control antibody for Raly siRNA (h): sc-76344, Raly siRNA (m): sc-152691, Raly shRNA Plasmid (h): sc-76344-SH, Raly shRNA Plasmid (m): sc-152691-SH, Raly shRNA (h) Lentiviral Particles: sc-76344-V and Raly shRNA (m) Lentiviral Particles: sc-152691-V.

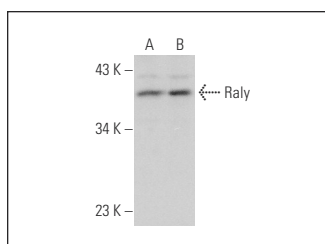
Molecular Weight of Raly: 32/30 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or Jurkat whole cell lysate: sc-2204.

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.

DATA



Raly (D-14): sc-85865. Western blot analysis of Raly expression in HeLa (A) and Jurkat (B) nuclear extracts.

RESEARCH USE

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