

SCYL1 (KA.72): sc-130466

BACKGROUND

SCYL1 (SCY1-like protein 1), also known as NTKL (N-terminal kinase-like protein), CVAK90 (coated vesicle-associated kinase of 90 kDa), GKLP, TAPK, TEIF or TRAP (telomerase regulation-associated protein), is an 808 amino acid protein that belongs to the protein kinase superfamily. SCYL1 contains three heat domains and one protein kinase domain, which is thought to be catalytically inactive. SCYL1 regulates COPI-mediated traffic and interacts with COPA, COPB1, COPB2, AP2B1 and GORAB. SCYL1 undergoes alternative splicing events to produce six isoforms. Isoform 6 localizes to the nucleus where it acts as a transcriptional activator and binds three GC-rich sites (box A, B and C) in the region of the beta-polymerase and TERT promoter. Isoforms 1, 2 and 3 are known to localize to the cytoplasm. The gene encoding SCYL1 maps to human chromosome 11q13.1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SCYL1 (human) mapping to 11q13.1; Scyl1 (mouse) mapping to 19 A.

SOURCE

SCYL1 (KA.72) is a mouse monoclonal antibody raised against recombinant SCYL1 of human origin.

PRODUCT

Each vial contains 100 μ g IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

SCYL1 (KA.72) is recommended for detection of SCYL1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)].

Suitable for use as control antibody for SCYL1 siRNA (h): sc-96792, SCYL1 siRNA (m): sc-153277, SCYL1 shRNA Plasmid (h): sc-96792-SH, SCYL1 shRNA Plasmid (m): sc-153277-SH, SCYL1 shRNA (h) Lentiviral Particles: sc-96792-V and SCYL1 shRNA (m) Lentiviral Particles: sc-153277-V.

Molecular Weight of SCYL1 isoforms: 90/88/79/86/69 kDa.

Positive Controls: Y79 cell lysate: sc-2240.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

SELECT PRODUCT CITATIONS

1. Esteban-Pretel G., Marín, M.P., Romero, A.M., Timoneda, J., Ponsoda, X., Ballestín, R. and Renau-Piqueras, J. 2013. Polyphosphoinositide metabolism and Golgi complex morphology in hippocampal neurons in primary culture is altered by chronic ethanol exposure. *Alcohol Alcohol.* 48: 15-27.

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 for detailed protocols and support products.