SANTA CRUZ BIOTECHNOLOGY, INC.

# SEDL (JK-4): sc-101312

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*The Power to Question*

## BACKGROUND

SEDL (sedlin), also known as TRAPPC2 (trafficking protein particle complex subunit 2), SEDT, TRS20, MIP-2A (MBP-1-interacting protein 2A) or ZNF547L, is an evolutionarily conserved member of the sedlin subfamily of the TRAPP small subunits family of proteins. Localizing to the perinuclear region of the cytoplasm, SEDL binds to α Enolase and, by sequestering it in the cytoplasm, inhibits α Enolase transcriptional repression and α Enolase-mediated cell death. In addition, SEDL is believed to be involved in transport from the endoplasmic reticulum (ER) to the Golgi, functioning as a component of the multisubunit transport protein particle (TRAPP) complex. Mutations in the gene encoding SEDL can result in the late childhood onset of spondyloepiphyseal dysplasia tarda (SEDT), an X-linked recessive disease of endochondral bone formation affecting men. SEDT patients exhibit a short trunk and hips with degenerative disease.

## REFERENCES


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## CHROMOSOMAL LOCATION

Genetic locus: TRAPPC2 (human) mapping to Xp22.2; Trappc2 (mouse) mapping to X F5.

## SOURCE

SEDL (JK-4) is a mouse monoclonal antibody raised against recombinant SEDL of human origin.

## PRODUCT

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

## APPLICATIONS

SEDL (JK-4) is recommended for detection of SEDL 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for SEDL siRNA (h): sc-62984, SEDL siRNA (m): sc-62985, SEDL shRNA Plasmid (h): sc-62984-SH, SEDL shRNA Plasmid (m): sc-62985-SH, SEDL shRNA (h) Lentiviral Particles: sc-62984-V and SEDL shRNA (m) Lentiviral Particles: sc-62985-V.

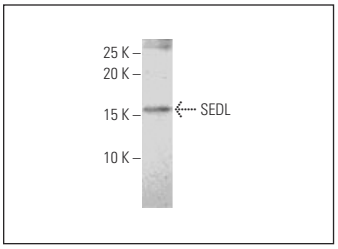
Molecular Weight of SEDL: 16 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ 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).

## DATA




SEDL (JK-4): sc-101312. Western blot analysis of SEDL expression in HeLa whole cell lysate.

## 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.