

SEC14L2 (H-300): sc-67096

BACKGROUND

The monomeric, SEC14L2 (SEC14-like protein 2), also known as supernatant protein factor (SPF), α -tocopherol-associated protein or squalene transfer protein, functions as a carrier protein transferring tocopherols, as a transcriptional activator via its interaction with α -tocopherol and as a stimulator of conversion of microsomal squalene-2,3-oxide into lanosterol in cholesterol biosynthesis. High levels of SEC14L2 are expressed in liver, brain, intestine and prostate. Subcellular localization of SEC14L2 is cytoplasmic, but in the presence of α -tocopherol, SEC14L2 localizes in the nucleus. Activity of SEC14L2 depends on posttranslational modifications, specifically phosphorylation by PKA and PKC.

REFERENCES

1. Caras, I.W. and Bloch, K. 1979. Effects of a supernatant protein activator on microsomal squalene-2,3-oxide-lanosterol cyclase. *J. Biol. Chem.* 254: 11816-11821.
2. Friedlander, E.J., Caras, I.W., Lin, L.F. and Bloch, K. 1980. Supernatant protein factor facilitates intermembrane transfer of squalene. *J. Biol. Chem.* 255: 8042-8045.

CHROMOSOMAL LOCATION

Genetic locus: SEC14L2 (human) mapping to 22q12.2; Sec14l2 (mouse) mapping to 11 A1.

SOURCE

SEC14L2 (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of SEC14L2 of human origin.

PRODUCT

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

APPLICATIONS

SEC14L2 (H-300) is recommended for detection of SEC14L2 of mouse, rat 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); may cross-react with SEC14L3 and SEC14L4.

SEC14L2 (H-300) is also recommended for detection of SEC14L2 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for SEC14L2 siRNA (h): sc-44738, SEC14L2 siRNA (m): sc-44739, SEC14L2 shRNA Plasmid (h): sc-44738-SH, SEC14L2 shRNA Plasmid (m): sc-44739-SH, SEC14L2 shRNA (h) Lentiviral Particles: sc-44738-V and SEC14L2 shRNA (m) Lentiviral Particles: sc-44739-V.

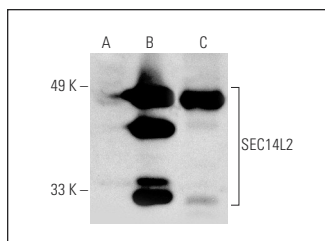
Molecular Weight of SEC14L2: 47 kDa.

Positive Controls: mouse liver extract: sc-2256, SEC14L2 (m2): 293T Lysate: sc-126041 or rat liver extract: sc-2395.

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



SEC14L2 (H-300): sc-67096. Western blot analysis of SEC14L2 expression in non-transfected: sc-117752 (A) and mouse SEC14L2 transfected: sc-126041 (B) 293T whole cell lysates and mouse liver tissue extract (C).

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 **SEC14L2 (H-4): sc-271905** or **SEC14L2 (H-5): sc-271902**, our highly recommended monoclonal alternatives to SEC14L2 (H-300).