

Lipin-2 (H-160): sc-134433

BACKGROUND

The Lipin family of nuclear proteins contains three members: Lipin-1, Lipin-2 and Lipin-3, all of which contain a nuclear signal sequence, a highly conserved amino-terminal (NLIP) domain and a carboxy-terminal (CLIP) domain. Lipin-2 is ubiquitously expressed in various tissues including brain, kidney, lung, heart and skeletal muscles, and it is abundantly produced in the cornea, lens, retina, optic nerve and sclera. The gene encoding for Lipin-2 contains 11 single nucleotide polymorphisms (SNPs). Mutations in the Lipin-2 gene commonly result in Majeed syndrome, and autosomal recessive, autoinflammatory disorder characterized by chronic multifocal osteomyelitis and and congenital dyserythropoietic anaemia. The symptoms of this syndrome include inflammation of the bone and skin and recurrent fevers.

REFERENCES

- Tomita, M., Nohno, T., Okuyama, T., Nishimatsu, S. and Adachi, J. 2002. Paraquat-induced gene expression in rat lung tissues using a differential display reverse transcription-polymerase chain reaction. *Arch. Toxicol.* 76: 530-537.
- Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 605519. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: LPIN2 (human) mapping to 18p11.31; Lpin2 (mouse) mapping to 17 E1.3.

SOURCE

Lipin-2 (H-160) is a rabbit polyclonal antibody raised against amino acids 246-405 mapping within an internal region of Lipin-2 of human origin.

PRODUCT

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

APPLICATIONS

Lipin-2 (H-160) is recommended for detection of Lipin-2 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).

Lipin-2 (H-160) is also recommended for detection of Lipin-2 in additional species, including equine and canine.

Suitable for use as control antibody for Lipin-2 siRNA (h): sc-60942, Lipin-2 siRNA (m): sc-60943, Lipin-2 shRNA Plasmid (h): sc-60942-SH, Lipin-2 shRNA Plasmid (m): sc-60943-SH, Lipin-2 shRNA (h) Lentiviral Particles: sc-60942-V and Lipin-2 shRNA (m) Lentiviral Particles: sc-60943-V.

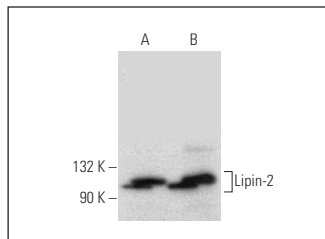
Molecular Weight of Lipin-2: 99 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or Y79 cell lysate: sc-2240.

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



Lipin-2 (H-160): sc-134433. Western blot analysis of Lipin-2 expression in Jurkat (A) and Y79 (B) whole cell lysates.

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
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Try **Lipin-2 (G-7): sc-514353**, our highly recommended monoclonal alternative to Lipin-2 (H-160).