

# Lipin-2 (K-20): sc-50054

## 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, an autosomal recessive, autoinflammatory disorder characterized by chronic multifocal osteomyelitis and congenital dyserythropoietic anemia. The symptoms of this syndrome include inflammation of the bone and skin, and recurrent fevers.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: LPIN2 (human) mapping to 18p11.31.

## SOURCE

Lipin-2 (K-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus 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.

Blocking peptide available for competition studies, sc-50054 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Lipin-2 (K-20) is recommended for detection of Lipin-2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 (K-20) is also recommended for detection of Lipin-2 in additional species, including canine.

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

Molecular Weight of Lipin-2: 99 kDa.

## 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) 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.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.