

# LARP1 (S-14): sc-131975

## BACKGROUND

La-related protein 1 (LARP1), also known as KIAA0731, is a 1,096 amino acid protein belonging to the LARP family. LARP1 contains two conserved regions, one that shares homology with La/SSB proteins and one that is conserved only across LARP family proteins. Within the La/SSB conserved region, LARP1 contains a HTH La-type RNA-binding domain, which may indicate a role in RNA stabilization and folding. Upon DNA damage, LARP1 is phosphorylated by ATR or ATM. LARP1 interacts with many signaling intermediate proteins, including 14-3-3  $\beta$ , 14-3-3  $\gamma$ , 14-3-3  $\theta$  and 14-3-3  $\omega$ . Widely expressed, LARP1 levels are highest in heart. LARP1 exists as three isoforms produced by alternative splicing.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: LARP1 (human) mapping to 5q33.2; Larp1 (mouse) mapping to 11 B1.3.

## SOURCE

LARP1 (S-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of LARP1 of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-131975 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

LARP1 (S-14) is recommended for detection of LARP1 isoforms 1 and 2 of mouse, rat and 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); non cross-reactive with other LARP family members.

LARP1 (S-14) is also recommended for detection of LARP1 isoforms 1 and 2 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for LARP1 siRNA (h): sc-91848, LARP1 siRNA (m): sc-146649, LARP1 shRNA Plasmid (h): sc-91848-SH, LARP1 shRNA Plasmid (m): sc-146649-SH, LARP1 shRNA (h) Lentiviral Particles: sc-91848-V and LARP1 shRNA (m) Lentiviral Particles: sc-146649-V.

Molecular Weight of LARP1: 123 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.