

LARP5 (E-12): sc-138971

BACKGROUND

La-related protein 5 (LARP5), also known as KIAA0217, is a 738 amino acid protein belonging to the LARP family. LARP5 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, LARP5 contains a HTH La-type RNA-binding domain, which may indicate a role in RNA stabilization and folding. LARP5 also contains a RRM (RNA recognition motif) domain, which indicates the ability to bind single stranded RNA. Upon DNA damage, LARP1 is phosphorylated by ATR or ATM.

REFERENCES

1. Nagase, T., et al. 1996. Prediction of the coding sequences of unidentified human genes. VI. The coding sequences of 80 new genes (KIAA0201-KIAA0280) deduced by analysis of cDNA clones from cell line KG-1 and brain. *DNA Res.* 3: 321-329, 341.
2. Angenstein, F., et al. 2002. A receptor for activated C kinase is part of messenger ribonucleoprotein complexes associated with polyA-mRNAs in neurons. *J. Neurosci.* 22: 8827-8837.
3. Yu, L.R., et al. 2007. Improved titanium dioxide enrichment of phosphopeptides from HeLa cells and high confident phosphopeptide identification by cross-validation of MS/MS and MS/MS/MS spectra. *J. Proteome Res.* 6: 4150-4162.
4. Daub, H., et al. 2008. Kinase-selective enrichment enables quantitative phosphoproteomics of the kinome across the cell cycle. *Mol. Cell.* 31: 438-448.
5. Nykamp, K., et al. 2008. *C. elegans* La-related protein, LARP-1, localizes to germline P bodies and attenuates Ras-MAPK signaling during oogenesis. *RNA* 14: 1378-1389.

CHROMOSOMAL LOCATION

Genetic locus: LARP4B (human) mapping to 10p15.3; Larp4b (mouse) mapping to 13 A1.

SOURCE

LARP5 (E-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of LARP5 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-138971 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

LARP5 (E-12) is recommended for detection of LARP5 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.

Suitable for use as control antibody for LARP5 siRNA (h): sc-90603, LARP5 siRNA (m): sc-146652, LARP5 shRNA Plasmid (h): sc-90603-SH, LARP5 shRNA Plasmid (m): sc-146652-SH, LARP5 shRNA (h) Lentiviral Particles: sc-90603-V and LARP5 shRNA (m) Lentiviral Particles: sc-146652-V.

Molecular Weight of LARP5: 80 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.