

# CKIP-1 (H-240): sc-99218

## BACKGROUND

Casein Kinase II-interacting protein 1 (CKIP-1), also designated pleckstrin homology domain containing family O member 1 (PLEKHO1), is a 409-amino acid protein with an N-terminal pleckstrin homology domain and a putative C-terminal JUN leucine zipper interactive domain. CKIP-1 is expressed at the highest levels in skeletal muscle and heart, intermediately in placenta, lung and brain, and at the weakest levels in pancreas, liver and kidney. CKIP-1 localizes to the plasma membrane of transfected COS-7 cells and also to the plasma membrane and the nucleus in human osteosarcoma cells. It interacts with the N terminus of CSNK2A1 and with full length CSNK2A1, but not with CSNK2A2 or CSNK2B.

## REFERENCES

1. Bosc, D.G., Graham, K.C., Saulnier, R.B., Zhang, C., Prober, D., Gietz, R.D. and Litchfield, D.W. 2000. Identification and characterization of CKIP-1, a novel pleckstrin homology domain-containing protein that interacts with protein kinase CK2. *J. Biol. Chem.* 275: 14295-14306.
2. Olsten, M.E., Canton, D.A., Zhang, C., Walton, P.A. and Litchfield, D.W. 2004. The Pleckstrin homology domain of CK2 interacting protein-1 is required for interactions and recruitment of protein kinase CK2 to the plasma membrane. *J. Biol. Chem.* 279: 42114-42127.

## CHROMOSOMAL LOCATION

Genetic locus: PLEKHO1 (human) mapping to 1q21.2; Plekho1 (mouse) mapping to 3 F2.1.

## SOURCE

CKIP-1 (H-240) is a rabbit polyclonal antibody raised against amino acids 170-409 mapping at the C-terminus of CKIP-1 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

CKIP-1 (H-240) is recommended for detection of CKIP-1 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).

CKIP-1 (H-240) is also recommended for detection of CKIP-1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CKIP-1 siRNA (h): sc-60389, CKIP-1 siRNA (m): sc-60390, CKIP-1 shRNA Plasmid (h): sc-60389-SH, CKIP-1 shRNA Plasmid (m): sc-60390-SH, CKIP-1 shRNA (h) Lentiviral Particles: sc-60389-V and CKIP-1 shRNA (m) Lentiviral Particles: sc-60390-V.

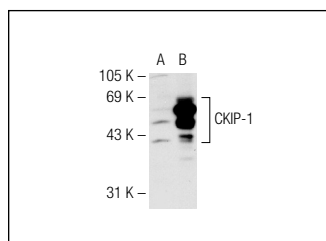
Molecular Weight of CKIP-1: 50 kDa.

Positive Controls: CKIP-1 (h4): 293T Lysate: sc-176668.

## 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



CKIP-1 (H-240): sc-99218. Western blot analysis of CKIP-1 expression in non-transfected: sc-117752 (A) and human CKIP-1 transfected: sc-176668 (B) 293T 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **CKIP-1 (A-12): sc-376355** or **CKIP-1 (A-3): sc-376060**, our highly recommended monoclonal alternatives to CKIP-1 (H-240).