

# CKIP-1 (E-18): sc-50226

## BACKGROUND

Casein kinase II-interacting protein 1 (CKIP-1), also designated Pleckstrin homology domain containing family O member 1 (PLEKH01), 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., et al. 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., et al. 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: PLEKH01 (human) mapping to 1q21.2; Plekho1 (mouse) mapping to 3 F2.1.

## SOURCE

CKIP-1 (E-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-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.

Blocking peptide available for competition studies, sc-50226 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

CKIP-1 (E-18) 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 (E-18) is also recommended for detection of CKIP-1 in additional species, including equine, canine, bovine, porcine and avian.

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.

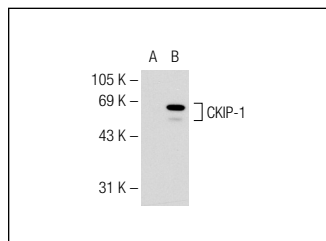
Molecular Weight of CKIP-1: 50 kDa.

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 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

## DATA



CKIP-1 (E-18): sc-50226. 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.

## SELECT PRODUCT CITATIONS

1. Xi, S., et al. 2010. N-terminal PH domain and C-terminal auto-inhibitory region of CKIP-1 coordinate to determine its nucleus-plasma membrane shuttling. *FEBS Lett.* 584: 1223-1230.

## 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.



Try **CKIP-1 (A-12): sc-376355** or **CKIP-1 (A-3): sc-376060**, our highly recommended monoclonal alternatives to CKIP-1 (E-18).