

# CALCOCO1 (N-14): sc-161424

## BACKGROUND

CALCOCO1 (calcium-binding and coiled-coil domain-containing protein 1), also known as cocoa, calphoglin, sarcoma antigen NY-SAR-3 or coiled-coil coactivator protein, is a 691 amino acid protein that shuttles between the cytoplasm and nucleus and functions as coactivator for aryl hydrocarbon and nuclear receptors. A member of the CALCOCO family, CALCOCO1 forms a calphoglin complex with PPA1 and PGM 1 and contains multiple functional domains through which it acts as a component of both the androgen signaling pathway and the Wnt/ $\beta$ -catenin signaling pathway. CALCOCO1 exists as three alternatively spliced isoforms (termed Q9P1Z2-1, 2 and 3), which are encoded by genes mapping to human chromosome 12q13.13 and mouse chromosome 15 F3.

## REFERENCES

1. Takahashi, K., Inuzuka, M. and Ingi, T. 2004. Cellular signaling mediated by calphoglin-induced activation of IPP and PGM. *Biochem. Biophys. Res. Commun.* 325: 203-214.
2. Yang, C.K., Kim, J.H., Li, H. and Stallcup, M.R. 2006. Differential use of functional domains by coiled-coil coactivator in its synergistic coactivator function with  $\beta$ -catenin or GRIP1. *J. Biol. Chem.* 281: 3389-3397.
3. Yang, C.K., Kim, J.H. and Stallcup, M.R. 2006. Role of the N-terminal activation domain of the coiled-coil coactivator in mediating transcriptional activation by  $\beta$ -catenin. *Mol. Endocrinol.* 20: 3251-3262.
4. Kim, J.H., Yang, C.K. and Stallcup, M.R. 2006. Downstream signaling mechanism of the C-terminal activation domain of transcriptional coactivator CoCoA. *Nucleic Acids Res.* 34: 2736-2750.
5. Yang, C.K., Kim, J.H., Ann, D.K. and Stallcup, M.R. 2008. Differential regulation of the two transcriptional activation domains of the coiled-coil coactivator CoCoA by sumoylation. *BMC Mol. Biol.* 9: 12.

## CHROMOSOMAL LOCATION

Genetic locus: CALCOCO1 (human) mapping to 12q13.13; Calcoco1 (mouse) mapping to 15 F3.

## SOURCE

CALCOCO1 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of CALCOCO1 of human origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-161424 P, (100  $\mu$ g 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.

## APPLICATIONS

CALCOCO1 (N-14) is recommended for detection of CALCOCO1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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); non cross-reactive with CALCOCO2.

Suitable for use as control antibody for CALCOCO1 siRNA (h): sc-95656, CALCOCO1 siRNA (m): sc-141978, CALCOCO1 shRNA Plasmid (h): sc-95656-SH, CALCOCO1 shRNA Plasmid (m): sc-141978-SH, CALCOCO1 shRNA (h) Lentiviral Particles: sc-95656-V and CALCOCO1 shRNA (m) Lentiviral Particles: sc-141978-V.

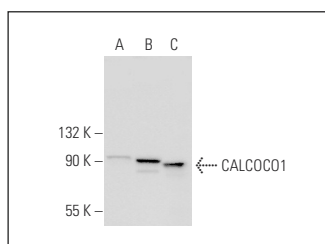
Molecular Weight of CALCOCO1: 77 kDa.

Positive Controls: HEK293 whole cell lysate: sc-45136, HeLa nuclear extract: sc-2120 or Ramos cell lysate: sc-2216.

## 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



CALCOCO1 (N-14): sc-161424. Western blot analysis of CALCOCO1 expression in HEK293 (A) and Ramos (B) whole cell lysates and HeLa nuclear extract (C).

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

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Try **CALCOCO1 (A-10): sc-515670**, our highly recommended monoclonal alternative to CALCOCO1 (N-14).