SANTA CRUZ BIOTECHNOLOGY, INC.

# CALCOCO1 (A-10): sc-515670

SANTA CRUZ BIOTECHNOLOGY

*The Power to Question*

## 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 is 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/β-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.

## CHROMOSOMAL LOCATION

Genetic locus: CALCOCO1 (human) mapping to 12q13.13.

## SOURCE

CALCOCO1 (A-10) is a mouse monoclonal antibody raised against amino acids 118-343 mapping within an internal region of CALCOCO1 of human origin.

## PRODUCT

Each vial contains 200 µg $IgG_1$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CALCOCO1 (A-10) is available conjugated to agarose (sc-515670 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-515670 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515670 PE), fluorescein (sc-515670 FITC), Alexa Fluor® 488 (sc-515670 AF488), Alexa Fluor® 546 (sc-515670 AF546), Alexa Fluor® 594 (sc-515670 AF594) or Alexa Fluor® 647 (sc-515670 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-515670 AF680) or Alexa Fluor® 790 (sc-515670 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

## RESEARCH USE

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

## APPLICATIONS

CALCOCO1 (A-10) is recommended for detection of CALCOCO1 of human origin by Western Blotting (starting dilution 1:100, 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).

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

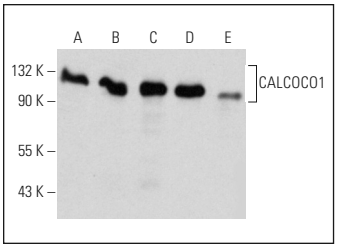
Molecular Weight of CALCOCO1: 77 kDa.

Positive Controls: ARPE-19 whole cell lysate: sc-364357, MCF7 whole cell lysate: sc-2206 or Ramos cell lysate: sc-2216.

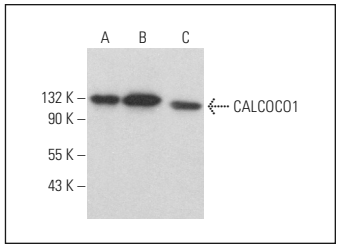
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## DATA




CALCOCO1 (A-10): sc-515670. Western blot analysis of CALCOCO1 expression in Ramos (**A**), MCF7 (**B**), ARPE-19 (**C**) and WI-38 (**D**) whole cell lysates and HeLa nuclear extract (**E**).




CALCOCO1 (A-10): sc-515670. Western blot analysis of CALCOCO1 expression in MCF7 (**A**), Raji (**B**) and Y79 (**C**) whole cell lysates.

## SELECT PRODUCT CITATIONS


1. Stefely, J.A., et al. 2020. Mass spectrometry proteomics reveals a function for mammalian CALCOCO1 in MTOR-regulated selective autophagy. Autophagy 16: 2219-2237.
2. Nthiga, T.M., et al. 2020. CALCOCO1 acts with VAMP-associated proteins to mediate ER-phagy. EMBO J. 39: e103649.
3. Nthiga, T.M., et al. 2021. Regulation of Golgi turnover by CALCOCO1-mediated selective autophagy. J. Cell Biol. 220: e202006128.


## STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## PROTOCOLS

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