**BACKGROUND**

CKAP5 (cytoskeleton-associated protein 5), also known as ch-TOG (colonic hepatic tumor overexpressed gene), is a 2,032 amino acid protein that is a member of the TOG/XMAP215 family and contains 9 heat repeats. CKAP5 is expressed in skeletal muscle, brain, heart, placenta, lung, liver, kidney and pancreas and is overexpressed in hepatomas and colonic tumors. During interphase, CKAP5 localizes to the perinuclear cytoplasm and the spindle poles, where it plays an important role in spindle microtubule organization. Specifically, CKAP5 is required for extrapole formation in prometaphases lacking Ark-1, a mitotic centrosomal kinase that functions as a spindle regulator and is overexpressed in tumors. CKAP5 binds to hnRNP A2 (heterogeneous nuclear ribonucleoprotein) and interacts with TACC1, TACC3 and Tubulin.

**CHROMOSOMAL LOCATION**

Genetic locus: CKAP5 (human) mapping to 11p11.2; Ckap5 (mouse) mapping to 2 E1.

**SOURCE**

CKAP5 (H-4) is a mouse monoclonal antibody raised against amino acids 1-300 mapping at the N-terminus of CKAP5 of human origin.

**PRODUCT**

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

CKAP5 (H-4) is available conjugated to agarose (sc-374394 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-374394 HRP), 200 µg/ml, for WB, IHCP and ELISA; to either phycoerythrin (sc-374394 PE), fluorescein (sc-374394 FITC), Alexa Fluor® 488 (sc-374394 AF488), Alexa Fluor® 546 (sc-374394 AF546), Alexa Fluor® 594 (sc-374394 AF594) or Alexa Fluor® 647 (sc-374394 AF647), 200 µg/ml, for WB (RGB), IF, IHCP and FCM; and to either Alexa Fluor® 680 (sc-374394 AF680) or Alexa Fluor® 790 (sc-374394 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

CKAP5 (H-4) is recommended for detection of CKAP5 of mouse, rat and 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 CKAP5 siRNA (h): sc-96689, CKAP5 siRNA (m): sc-142355, CKAP5 shRNA Plasmid (h): sc-96689-SH, CKAP5 shRNA Plasmid (m): sc-142355-SH, CKAP5 shRNA (h) Lentiviral Particles: sc-96689-V and CKAP5 shRNA (m) Lentiviral Particles: sc-142355-V.

Molecular Weight of CKAP5: 225 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, HCT-116 whole cell lysate: sc-364175 or COLO 320DM (A), K-562 (B), HCT-116 (C) and Neuro-2A (D) whole cell lysates.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

**DATA**

**SELECT PRODUCT CITATIONS**


**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 for detailed protocols and support products.