

CKAP5 (K-15): sc-240237

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.

REFERENCES

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CHROMOSOMAL LOCATION

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

SOURCE

CKAP5 (K-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of CKAP5 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-240237 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CKAP5 (K-15) is recommended for detection of CKAP5 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 other CKAP family members.

CKAP5 (K-15) is also recommended for detection of CKAP5 in additional species, including equine and avian.

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.

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) 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.

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.



Try **CKAP5 (H-4): sc-374394**, our highly recommended monoclonal alternative to CKAP5 (K-15).