**BACKGROUND**

CKAP2 (cytoskeleton associated protein 2) is localized to the cytoplasm of humans and is expressed in tissues, including thymus and testis. CKAP2 is also referred to as LB1, TMAP or se20-10, and is a 682 amino acid protein which is expressed as 3 isoforms. CKAP2 is utilized during mitosis and is involved in regulating functions of microtubules, cellular death and the cell cycle. Before mitosis, CKAP2 is expressed in the cell cycle between phases G₁ and S, and accumulates between phases S and G2. During mitosis, when the anaphase promoting complex is activated, CKAP2 is degraded. The regulation of CKAP2 is essential for proper spindle functions and cytokinesis, and it is thought that CKAP2 function is mediated via phosphorylation and dephosphorylation. Upon activation of p53 by CKAP2, the G₁ phase of the cell cycle is stopped, leading to cell death and apoptosis. Gastric tumors contain excessive amounts of CKAP2, which can lead to unregulated spindle functions and may be involved in the development and progression of gastric cancer.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: CKAP2 (human) mapping to 13q14.3; Ckap2 (mouse) mapping to 8 A2.

**SOURCE**

CKAP2 (B-12) is a mouse monoclonal antibody raised against amino acids 431-494 mapping within an internal region of CKAP2 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

CKAP2 (B-12) is recommended for detection of CKAP2 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 CKAP2 siRNA (h): sc-105207, CKAP2 siRNA (m): sc-142352, CKAP2 shRNA Plasmid (h): sc-105207-SH, CKAP2 shRNA Plasmid (m): sc-142352-SH, CKAP2 shRNA (h) Lentiviral Particles: sc-105207-V and CKAP2 shRNA (m) Lentiviral Particles: sc-142352-V.

Molecular Weight of CKAP2: 75 kDa.


**RECOMMENDED SUPPORT REAGENTS**

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


**DATA**

**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.