**BACKGROUND**

The γ-tubulin complex is composed of γ tubulin and the γ-Tubulin complex-associated proteins GCP2, GCP3, GCP4, GCP5 and GCP6, all of which are essential components of microtubule organizing centers. γ-Tubulin complex components are localized to both the centrosome, where they are involved in microtubule nucleation, and to the cytoplasm, where they exist as soluble complexes that can be recruited to the centrosome as needed. Although the GCP proteins are related, they have distinct roles which contribute to the proper function of the γ-Tubulin complex. GCP3 (γ-Tubulin complex component 3), also known as TUBGCP3 or SPBC98, localizes to the centrosome and is a ubiquitously expressed 907 amino acid member of the γ-Tubulin complex. Like GCP2 and γ Tubulin, GCP3 is conserved in all eukaryotes, suggesting that it is part of a core unit involved in eukaryotic microtubule nucleation. Three isoforms of GCP3 exist due to alternative splicing events.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: TUBGCP3 (human) mapping to 13q34.

**SOURCE**

GCP3 (C-3) is a mouse monoclonal antibody raised against amino acids 1-303 mapping at the N-terminus of GCP3 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.

GCP3 (C-3) is available conjugated to agarose (sc-373758 AC), 500 μg/0.25 ml of cell lysate, for 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 GCP3 siRNA (h): sc-77348, GCP3 shRNA Plasmid (h): sc-77348-SH and GCP3 shRNA (h) Lentiviral Particles: sc-77348-V.

Molecular Weight of GCP3: 104 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, COLO 205 whole cell lysate: sc-364177 or SJRH30 cell lysate: sc-2287.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG1 BP-HRP: sc-516102 or m-IgG1 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-IgG1 BP-FITC: sc-516140 or m-IgG1 BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgG1 BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

**DATA**

GCP3 (C-3): sc-373758. Western blot analysis of GCP3 expression in K-562 (A), COLO 205 (B) and SJRH30 (C) whole cell lysates.

GCP3 (C-3): sc-373758. Immunoperoxidase staining of formalin fixed, paraffin-embedded human pancreas tissue showing cytoplasmic staining of glandular cells.

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

**STORAGE**

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