# SANTA CRUZ BIOTECHNOLOGY, INC.

# GCP3 (H-303): sc-67252



### BACKGROUND

The  $\gamma$ -Tubulin complex is composed of  $\gamma$ -Tubulin and the  $\gamma$ -Tubulin complexassociated proteins GCP2, GCP3, GCP4, GCP5 and GCP6, all of which are essential components of microtubule organizing centers.  $\gamma$ -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  $\gamma$ -Tubulin complex. GCP3 ( $\gamma$ -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  $\gamma$ -Tubulin complex. Like GCP2 and  $\gamma$  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

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#### CHROMOSOMAL LOCATION

Genetic locus: TUBGCP3 (human) mapping to 13q34; Tubgcp3 (mouse) mapping to 8 A1.1.

#### SOURCE

GCP3 (H-303) is a rabbit polyclonal antibody raised against amino acids 1-303 mapping at the N-terminus of GCP3 of human origin.

#### PRODUCT

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## **APPLICATIONS**

GCP3 (H-303) is recommended for detection of  $\gamma$ -tubulin complex component 3 isoforms 1, 2 and 3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immuno-fluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

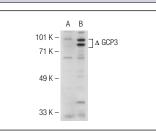
GCP3 (H-303) is also recommended for detection of  $\gamma$ -Tubulin complex component 3 isoforms 1, 2, and 3 in additional species, including canine, bovine and avian.

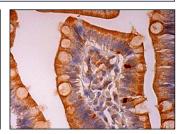
Suitable for use as control antibody for GCP3 siRNA (h): sc-77348, GCP3 siRNA (m): sc-77349, GCP3 shRNA Plasmid (h): sc-77348-SH, GCP3 shRNA Plasmid (m): sc-77349-SH, GCP3 shRNA (h) Lentiviral Particles: sc-77348-V and GCP3 shRNA (m) Lentiviral Particles: sc-77349-V.

Molecular Weight of GCP3: 104 kDa.

Positive Controls: GCP3 (h): 293 Lysate: sc-111109.

#### DATA





GCP3 (H-303): sc-67252. Western blot analysis of GCP3 expression in non-transfected: sc-110760 (**A**) and truncated human GCP3 transfected: sc-111109 (**B**) 293 whole cell lysates.

GCP3 (H-303): sc-67252. Immunoperoxidase staining of formalin fixed, paraffin-embedded human small intestine tissue showing cytoplasmic staining of glandular cells.

#### **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.

MONOS Satisfation Guaranteed Try GCP3 (C-3): sc-373758, our highly recommended monoclonal alternative to GCP3 (H-303).