

# Tastin (S-15): sc-67873

## BACKGROUND

Tastin (trophinin associated protein), also known as TROAP, is essential for centrosome integrity and proper bipolar organization of spindle assembly during mitosis. It is expressed at high levels in bone marrow, testis, and thymus, localizing to the cytoplasm and associating with microtubules, the mitotic spindle and centrosomes. Tastin expression peaks in the cell during the G<sub>2</sub>/M phase and declines after the cell divides. Cells overexpressing Tastin form monopolar spindles, while cells depleted of tastin form multipolar spindles. Tastin binds directly to the dynein light chain (dynein LC or Tctex-1) and  $\gamma$  tubulin, further supporting its role in spindle assembly and cell proliferation. In addition, tastin can interact with and form a complex with bystin and trophinin, facilitating cell adhesion and, in particular, embryo implantation.

## REFERENCES

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6. Nakayama, J., Aoki, D., Suga, T., Akama, T.O., Ishizone, S., Yamaguchi, H., Imakawa, K., Nadano, D., Fazleabas, A.T., Katsuyama, T., Nozawa, S. and Fukuda, M.N. 2003. Implantation-dependent expression of trophinin by maternal fallopian tube epithelia during tubal pregnancies: possible role of human chorionic gonadotrophin on ectopic pregnancy. *Am. J. Pathol.* 163: 2211-2219.

## CHROMOSOMAL LOCATION

Genetic locus: TROAP (human) mapping to 12q13.12.

## SOURCE

Tastin (S-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Tastin of human origin.

## STORAGE

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

## PRODUCT

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

Blocking peptide available for competition studies, sc-67873 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Tastin (S-15) is recommended for detection of Tastin of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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 Tastin siRNA (h): sc-63107, Tastin shRNA Plasmid (h): sc-63107-SH and Tastin shRNA (h) Lentiviral Particles: sc-63107-V.

Molecular Weight (predicted) of Tastin: 84 kDa.

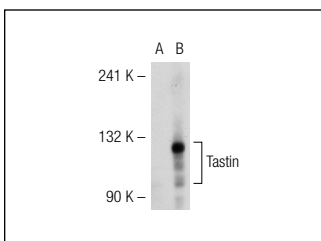
Molecular Weight (observed) of Tastin: 99-121 kDa.

Positive Controls: SW480 cell lysate: sc-2219 or Tastin (h): 293T Lysate: sc-115239.

## 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

## DATA



Tastin (S-15): sc-67873. Western blot analysis of Tastin expression in non-transfected: sc-117752 (A) and human Tastin transfected: sc-115239 (B) 293T whole cell lysates.

## RESEARCH USE

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