

# HAUS6 (M-189): sc-134957

## BACKGROUND

The human augmin complex (HAUS) is an evolutionarily conserved 8-subunit protein complex that was initially discovered in *Drosophila*. The HAUS complex is essential for microtubule generation, centrosome integrity, mitotic spindle assembly and completion of cytokinesis. HAUS6 (HAUS augmin-like complex, subunit 6), also known as FAM29A or Dgt6, is a 955 amino acid component of the augmin complex. Required for mitotic progression, HAUS6 localizes to cytoplasm, cytoskeleton, mitotic spindle microtubules and interphase centrosomes, and undergoes post-translational phosphorylation following mitosis on multiple serine and threonine residues. HAUS6 exists as two alternatively spliced isoforms that are encoded by a gene located on human chromosome 9.

## REFERENCES

- Larson, B.A., et al. 1991. Increased urotensin I and II immunoreactivity in the urophysis of *Gillichthys mirabilis* transferred to low salinity water. *Gen. Comp. Endocrinol.* 83: 379-387.
- Goshima, G., et al. 2008. Augmin: a protein complex required for centrosome-independent microtubule generation within the spindle. *J. Cell Biol.* 181: 421-429.
- Zhu, H., et al. 2008. FAM29A promotes microtubule amplification via recruitment of the NEDD1- $\gamma$ -tubulin complex to the mitotic spindle. *J. Cell Biol.* 183: 835-848.
- Lawo, S., et al. 2009. HAUS, the 8-subunit human augmin complex, regulates centrosome and spindle integrity. *Curr. Biol.* 19: 816-826.
- Uehara, R., et al. 2009. The augmin complex plays a critical role in spindle microtubule generation for mitotic progression and cytokinesis in human cells. *Proc. Natl. Acad. Sci. USA* 106: 6998-7003.

## CHROMOSOMAL LOCATION

Genetic locus: Haus6 (mouse) mapping to 4 C4.

## SOURCE

HAUS6 (M-189) is a rabbit polyclonal antibody raised against amino acids 117-305 mapping near the N-terminus of HAUS6 of mouse origin.

## PRODUCT

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

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

## APPLICATIONS

HAUS6 (M-189) is recommended for detection of HAUS6 of mouse and rat 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 HAUS6 siRNA (m): sc-140430, HAUS6 shRNA Plasmid (m): sc-140430-SH and HAUS6 shRNA (m) Lentiviral Particles: sc-140430-V.

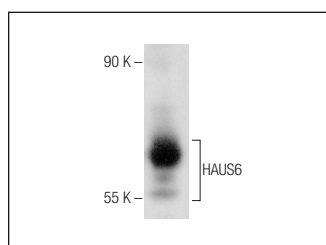
Molecular Weight of HAUS6: 109 kDa.

Positive Controls: Rat testis extract: sc-2400.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



HAUS6 (M-189): sc-134957. Western blot analysis of HAUS6 expression in rat testis tissue extract.

## RESEARCH USE

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