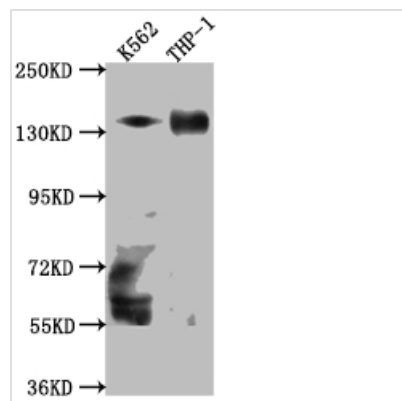




# TACC3 Recombinant Monoclonal Antibody

<b>Product Code</b>	CSB-RA553945A0HU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	Q9Y6A5
<b>Immunogen</b>	A synthesized peptide derived from human TACC3
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
<b>Relevance</b>	Plays a role in the microtubule-dependent coupling of the nucleus and the centrosome. Involved in the processes that regulate centrosome-mediated interkinetic nuclear migration (INM) of neural progenitors (By similarity). Acts as component of the TACC3/ch-TOG/clathrin complex proposed to contribute to stabilization of kinetochore fibers of the mitotic spindle by acting as inter-microtubule bridge. The TACC3/ch-TOG/clathrin complex is required for the maintenance of kinetochore fiber tension (PubMed:21297582, PubMed:23532825). May be involved in the control of cell growth and differentiation. May contribute to cancer (PubMed:14767476).
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Cell biology
<b>Gene Names</b>	TACC3
<b>Clone No.</b>	10G7

## Image



### Western Blot

Positive WB detected in: K562 whole cell lysate, THP-1 whole cell lysate

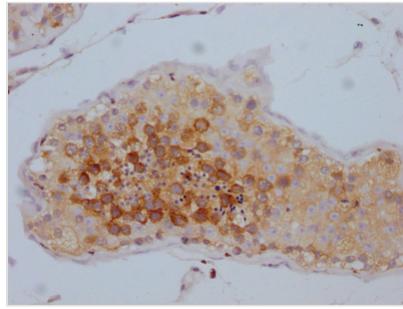
All lanes: TACC3 Antibody at 1:1000

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 91 kDa

Observed band size: 140 kDa



IHC image of CSB-RA553945A0HU diluted at 1:100 and staining in paraffin-embedded human testis tissue performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

## Description

TACC3 regulates spindle organization during mitosis and also regulates centrosome-mediated microtubule nucleation by affecting  $\gamma$ -Tubulin ring complexes. In addition, it interacts with different proteins such as ch-TOG, clathrin, and Aurora-A, to function in mitotic spindle assembly and stability. By forming the TACC3/ch-TOG complex, TACC3 acts as a plus end-tracking protein to promote microtubule elongation. Aberrant expression of TACC3 has been observed in various human cancers and has been shown to promote tumor growth in vivo. In human cells, TACC3 has been shown to be associated with the organization of the mitotic spindle poles. Subsequent studies revealed that TACC3 depletion induced chromosomal misalignment reduced spindle stability, and triggered apoptosis in cells.

The recombinant TACC3 antibody was produced by cloning antibody genes into an expression vectors, which were subsequently introduced into mammalian cells to provide animal-free antibody production. This TACC3 antibody has been validated in ELISA, WB, IHC. It has the features of improved affinity, stability, and consistency between different batches.