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TUBGCP2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12746c

Product Information

Application	WB, E
Primary Accession	Q9BSJ2
Other Accession	NP_006650.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32426
Calculated MW	102534
Antigen Region	394-423

Additional Information

Gene ID	10844
Other Names	Gamma-tubulin complex component 2, GCP-2, hGCP2, Gamma-ring complex protein 103 kDa, h103p, hGrip103, Spindle pole body protein Spc97 homolog, hSpc97, TUBGCP2, GCP2
Target/Specificity	This TUBGCP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 394-423 amino acids from the Central region of human TUBGCP2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TUBGCP2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TUBGCP2
Synonyms	GCP2

Function	Component of the gamma-tubulin ring complex (gTuRC) which mediates microtubule nucleation (PubMed:38305685, PubMed:38609661, PubMed:39321809, PubMed:9566967). The gTuRC regulates the minus-end nucleation of alpha-beta tubulin heterodimers that grow into microtubule protafilaments, a critical step in centrosome duplication and spindle formation (PubMed:38305685, PubMed:38609661, PubMed:39321809). Plays a role in neuronal migration (PubMed:31630790).
Cellular Location	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome
Tissue Location	Ubiquitously expressed.

Background

Gamma-tubulin complex is necessary for microtubule nucleation at the centrosome.

References

Fant, X., et al. J. Cell. Sci. 122 (PT 8), 1134-1144 (2009) :
Rikova, K., et al. Cell 131(6):1190-1203(2007)
Oshimori, N., et al. Nat. Cell Biol. 8(10):1095-1101(2006)
Rush, J., et al. Nat. Biotechnol. 23(1):94-101(2005)
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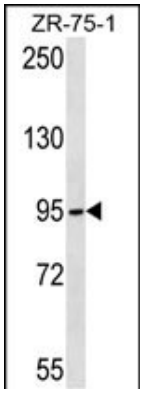
Images



TUBGCP2 Antibody (Center) (Cat. #AP12746c) western blot analysis in ZR-75-1 cell line lysates (35ug/lane).This demonstrates the TUBGCP2 antibody detected the TUBGCP2 protein (arrow).

Citations

- Haploinsufficiency of GCP4 induces autophagy and leads to photoreceptor degeneration due to defective spindle assembly in retina.