

Ch-TOG (D2Z8J) Rabbit mAb

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 225	Source/Isotype: Rabbit IgG	UniProt ID: #Q14008	Entrez-Gene Id: 9793
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Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	Ch-TOG (D2Z8J) Rabbit mAb recognizes endogenous levels of total ch-TOG protein. Based on the amino acid sequence of the peptide antigen, this antibody is expected to recognize all isoforms of ch-TOG.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala31 of human ch-TOG protein.	
Background	Ch-TOG (colonic hepatic tumor overexpressed gene)/CKAP5 (cytoskeleton-associated protein 5) is a microtubule stabilizing protein involved in the organization of mitotic spindle poles through interaction with the transforming acid coiled-coil protein, TACC3 (1). Ch-TOG and TACC3 also interact with the membrane trafficking protein clathrin, and this interaction is thought to be required for clathrin's mitotic function in crosslinking microtubules in the mitotic spindle (2). Researchers have found that expression levels of both TACC3 and ch-TOG are correlated with human diseases such as glioblastoma and hepatic carcinoma (3). A genome-wide siRNA screen identified ch-TOG and other G2/M phase regulators as potential contributors to head and neck squamous cell carcinoma (4).	
Background References	<ol style="list-style-type: none"> 1. Gergely, F. et al. (2003) <i>Genes Dev</i> 17, 336-41. 2. Royle, S.J. (2012) <i>J Cell Sci</i> 125, 19-28. 3. Thakur, H.C. et al. (2013) <i>Biol Chem</i> 394, 1411-23. 4. Martens-de Kemp, S.R. et al. (2013) <i>Clin Cancer Res</i> 19, 1994-2003. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	W: Western Blotting
Cross-Reactivity Key	H: Human M: Mouse R: Rat
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