

#67774 Store at -20°C

**Ch-TOG (D2Z8J) Rabbit mAb****Cell Signaling**  
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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R	Endogenous	225	Rabbit IgG	#Q14008	9793

<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	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.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala31 of human ch-TOG protein.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Gergely, F. et al. (2003) <i>Genes Dev</i> 17, 336-41.</li> <li>2. Royle, S.J. (2012) <i>J Cell Sci</i> 125, 19-28.</li> <li>3. Thakur, H.C. et al. (2013) <i>Biol Chem</i> 394, 1411-23.</li> <li>4. Martens-de Kemp, S.R. et al. (2013) <i>Clin Cancer Res</i> 19, 1994-2003.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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