

#5128 Store at -20C

TCTP (D10F2) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	23	Rabbit IgG	#P13693	7178

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	TCTP (D10F2) Rabbit mAb recognizes endogenous levels of total TCTP protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human TCTP protein.	
Background	Translationally controlled tumor protein (TCTP/p23/HRF) is a ubiquitously expressed and highly conserved protein involved in various cellular processes, such as its role as a histamine releasing factor in chronic allergic disease (1). TCTP binds tubulin in a cell cycle dependent manner and is associated with the mitotic spindle (2). In addition, TCTP interacts with the actin cytoskeleton to regulate cell shape (3). In mitosis, TCTP is phosphorylated by PLK at Ser46, decreasing microtubule stability (4,5). TCTP interacts with the small GTPase Rheb, possibly acting as a GEF, thereby activating the TORC1 pathway and controlling cell growth and proliferation (6,7). TCTP has also been shown to be involved in apoptosis and cell stress (8-11). In cultured cells, reduction in TCTP expression can cause loss of the malignant phenotype (12).	
Background References	1. MacDonald, S.M. et al. (1995) <i>Science</i> 269, 688-90. 2. Gachet, Y. et al. (1999) <i>J Cell Sci</i> 112 (Pt 8), 1257-71. 3. Bazile, F. et al. (2009) <i>Carcinogenesis</i> 30, 555-65. 4. Yarm, F.R. (2002) <i>Mol Cell Biol</i> 22, 6209-21. 5. Dephoure, N. et al. (2008) <i>Proc Natl Acad Sci USA</i> 105, 10762-7. 6. Dong, X. et al. (2009) <i>J Biol Chem</i> 284, 23754-64. 7. Hsu, Y.C. et al. (2007) <i>Nature</i> 445, 785-8. 8. Susini, L. et al. (2008) <i>Cell Death Differ</i> 15, 1211-20. 9. Bommer, U.A. et al. (2009) <i>Oncogene</i> [Epub ahead of print]. 10. Gnanasekar, M. et al. (2009) <i>Biochem Biophys Res Commun</i> 386, 333-7. 11. Gnanasekar, M. et al. (2009) <i>Int J Oncol</i> 34, 1241-6. 12. Tuynder, M. et al. (2002) <i>Proc Natl Acad Sci USA</i> 99, 14976-81.	

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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