TCTP (D10F2) Rabbit mAb	
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Applications: Reactivity: Sensitivity: MW (kDa): Source/Isotype: UniProt ID: Entrez-Gene Id: HMRMk Rabbit IgG #P13693 7178 W Endogenous 23 **Product Usage** Application Dilution Information 1.1000 Western Blotting 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). 1. MacDonald, S.M. et al. (1995) Science 269, 688-90. **Background References** 2. Gachet, Y. et al. (1999) / Cell Sci 112 (Pt 8), 1257-71. 3. Bazile, F. et al. (2009) Carcinogenesis 30, 555-65. 4. Yarm, F.R. (2002) Mol Cell Biol 22, 6209-21. 5. Dephoure, N. et al. (2008) Proc Natl Acad Sci USA 105, 10762-7. 6. Dong, X. et al. (2009) J Biol Chem 284, 23754-64. 7. Hsu, Y.C. et al. (2007) Nature 445, 785-8. 8. Susini, L. et al. (2008) Cell Death Differ 15, 1211-20. 9. Bommer, U.A. et al. (2009) Oncogene [Epub ahead of print]. 10. Gnanasekar, M. et al. (2009) Biochem Biophys Res Commun 386, 333-7. 11. Gnanasekar, M. et al. (2009) Int / Oncol 34, 1241-6. 12. Tuynder, M. et al. (2002) Proc Natl Acad Sci USA 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 W: Western Blotting **Cross-Reactivity Key** H: Human M: Mouse R: Rat Mk: Monkey **Trademarks and Patents** Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

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