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Phospho-TCTP (Ser46) Antibody



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Applications: W, IHC-P, IF-IC, FC- FP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 23	Source/Isotype: Rabbit	UniProt ID: #P13693	Entrez-Gene Id: 7178
Product Usage		Application				Dilution
Information		Western Blotting	(D (65:)			1:1000
		Immunohistochemist	•	icts ()		1:100 1:100
		Immunofluorescence Flow Cytometry (Fixed	•	iistry)		1:50
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-TCTP (Ser46) Antibody recognizes endogenous levels TCTP protein only when phosphorylated at Ser46. In some cell types the antibody may recognize an 80-100 kDa protein of unknown origin.				
Source / Purifica	tion		dues surrounding S	nmunizing animals with a ser46 of human TCTP pro raphy.		
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		 MacDonald, S.M. et al. (1995) Science 269, 688-90. Gachet, Y. et al. (1999) J Cell Sci 112 (Pt 8), 1257-71. Bazile, F. et al. (2009) Carcinogenesis 30, 555-65. Yarm, F.R. (2002) Mol Cell Biol 22, 6209-21. Dephoure, N. et al. (2008) Proc Natl Acad Sci USA 105, 10762-7. Dong, X. et al. (2009) J Biol Chem 284, 23754-64. Hsu, Y.C. et al. (2007) Nature 445, 785-8. Susini, L. et al. (2008) Cell Death Differ 15, 1211-20. Bommer, U.A. et al. (2009) Oncogene [Epub ahead of print]. Gnanasekar, M. et al. (2009) Biochem Biophys Res Commun 386, 333-7. Gnanasekar, M. et al. (2002) Proc Natl Acad Sci USA 99, 14976-81. 				
Species Reactivit	ty	Species reactivity is d	etermined by testin	g in at least one approve	ed 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 IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence

(Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human M: Mouse R: Rat Mk: Monkey

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