5251 Store at -20C

## Phospho-TCTP (Ser46) Antibody



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<b>Applications:</b> WB, IHC-P, IF-IC, FC- FP	Reactivity: H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 23	<b>Source:</b> Rabbit	UniProt ID: #P13693	Entrez-Gene Id 7178	
Product Usage Information	A	Application				Dilution	
	V	Vestern Blotting				1:1000	
	lı	mmunohistochemistry	(Paraffin)			1:100	
	lı	mmunofluorescence (	Immunocytochemis	stry)		1:100	
	F	Flow Cytometry (Fixed	/Permeabilized)			1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at $-$ 20°C. Do not aliquot the antibody.					
Specificity / Sensi		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.					
,				immunizing animals with a synthetic phosphopeptide corresponding an TCTP protein. Antibodies are purified by protein A and peptide			
Background	pr all sp T( sr gr	Translationally controlled tumor protein (TCTP/p23/HRF) is a ubiquitously expressed and highly conserprotein 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 mispindle (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 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 Refe	2. 3. 4. 5. 6. 7. 8. 9. 10.	<ol> <li>MacDonald, S.M. et al. (1995) Science 269, 688-90.</li> <li>Gachet, Y. et al. (1999) J Cell Sci 112 ( Pt 8), 1257-71.</li> <li>Bazile, F. et al. (2009) Carcinogenesis 30, 555-65.</li> <li>Yarm, F.R. (2002) Mol Cell Biol 22, 6209-21.</li> <li>Dephoure, N. et al. (2008) Proc Natl Acad Sci USA 105, 10762-7.</li> <li>Dong, X. et al. (2009) J Biol Chem 284, 23754-64.</li> <li>Hsu, Y.C. et al. (2007) Nature 445, 785-8.</li> <li>Susini, L. et al. (2008) Cell Death Differ 15, 1211-20.</li> <li>Bommer, U.A. et al. (2009) Oncogene [Epub ahead of print].</li> <li>Gnanasekar, M. et al. (2009) Biochem Biophys Res Commun 386, 333-7.</li> <li>Gnanasekar, M. et al. (2009) Proc Natl Acad Sci USA 99, 14976-81.</li> </ol>					

**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** 

WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin)

IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)

1/1/24. 11:51 AM

**Cross-Reactivity Key** 

Trademarks and Patents

**Limited Uses** 

Phospho-TCTP (Ser46) Antibody (#5251) Datasheet Without Images Cell Signaling Technology

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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