Phospho-TACC3 (Ser558) Antibody





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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit	UniProt ID: #Q9Y6A5	Entrez-Gene Id: 10460		
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 and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Sensitivity		Phospho-TACC3 (Ser558) Antibody detects endogenous levels of TACC3 protein only when phosphorylated at Ser558.						
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser558 of human TACC3 protein. Antibodies are purified by Protein A and peptid affinity chromatography.						
Background		Transforming acid coiled-coil (TACC) proteins are a family of proteins characterized by a common coiled-coil motif of approximately 200 amino acids at the carboxy-terminal end (1). Three family members have been identified in humans: TACC1, TACC2, and TACC3. These proteins are thought to be involved in centrosomal microtubule assembly and have been mapped to chromosomal regions that are disrupted in some cancers (reviewed in 2). TACC3 has been shown to be upregulated in many cancer cell lines (3). When phosphorylated at Ser558 by Aurora A, mammalian TACC3 is localized to mitotic spindles and increases microtubule stability (4,5). For this reason, it has been suggested that monitoring the localization of phosphorylated TACC3 would be an effective way to determine the efficacy of Aurora A inhibitors that show promise as anti-cancer drugs (6,7). In addition, studies have shown that TACC3 could be useful as a prognostic marker for non-small cell lung cancer (8).						
Background Re	eferences	 Peset, I. and Vernos Still, I.H. et al. (1999 Kinoshita, K. et al. (1 Schneider, L. et al. (200 LeRoy, P.J. et al. (200 Tyler, R.K. et al. (200 	et al. (2000) <i>Proc Natl Acad Sci USA</i> 97, 14352-7. ad Vernos, I. (2008) <i>Trends Cell Biol</i> 18, 379-88. al. (1999) <i>Genomics</i> 58, 165-70. K. et al. (2005) <i>J Cell Biol</i> 170, 1047-55. L. et al. (2007) <i>J Biol Chem</i> 282, 29273-83. et al. (2007) <i>Cancer Res</i> 67, 5362-70. et al. (2007) <i>Cell Cycle</i> 6, 2846-54. et al. (2006) <i>Pathol Int</i> 56, 503-9.					
Species Reactiv	vity	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	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 K	ey	W: Western Blotting						
Cross-Reactivit	ty Key	H: Human						
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