Securin (D2B6O) Rabbit mAb





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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 25	Source/Isotype: Rabbit IgG	UniProt ID: #O95997	Entrez-Gene Id: 9232	
Product Usage Information Storage	e	Application Western Blotting Immunoprecipitation	dium HEPES (oH 7)		Dilution 1:1000 1:200	rol and less than	
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/Ser	nsitivity	Securin (D2B6O) Rabbit mAb recognizes endogenous levels of total securin protein. Based on western blot of overexpressed proteins, this antibody will also recognize securin 2 (PTTG2) to a lesser extent.					
Source / Purifi	ication	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val19 of human securin (PTTG1) protein.					
Background		Securin is a regulatory protein that contributes to mitotic checkpoint control, p53 activity, DNA repair, and cell migration. The securin protein prevents premature separation of sister chromatids by inhibiting the protease separase, which cleaves the cohesin complex at the onset of anaphase to allow for sister chromatid segregation (1,2). In mouse oocytes, securin regulates cyclin B stability and G2/M transition (3). Securin negatively affects the transcriptional activity of p53, preventing p53-regulated apoptosis (4). Research studies indicate that securin plays a role in microtubule nucleation, cell polarization, and cell migration (5). Additional research indicates that securin expression may be useful as a biomarker for human breast cancer (6-8). The pituitary tumor-transforming gene 1 (<i>PTTG1</i>) encodes for securin protein, while the highly homologous securin 2 protein is transcribed from the related <i>PTTG2</i> gene. Securin 2 (PTTG2) protein lacks the ability to inhibit separase activity and may function primarily in cell adhesion and migration (9,10).					
Background References 1. Yanagida, M. (2005) Philos Trans R Soc Lond B Biol Sci 360, 609-21. 2. Wirth, K.G. et al. (2006) J Cell Biol 172, 847-60. 3. Marangos, P. and Carroll, J. (2008) Nat Cell Biol 10, 445-51. 4. Bernal, J.A. et al. (2002) Nat Genet 32, 306-11. 5. Moreno-Mateos, M.A. et al. (2011) Mol Biol Cell 22, 4302-11. 6. Talvinen, K. et al. (2003) Br J Cancer 101, 1005-10. 8. Ogbagabriel, S. et al. (2005) Mod Pathol 18, 985-90. 9. Han, X. and Poon, R.Y. (2013) Mol Cell Biol 33, 3400-15. 10. Méndez-Vidal, C. et al. (2013) Cell Death Dis 4, e530.					-21.		
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Species Reacti	ivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).				western blot).	
Western Blot I	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 IP: Immunoprecipitation					
Cross-Reactivi	ity Key	H: Human					
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