Store at -20C

2080

CHIP (C3B6) Rabbit mAb



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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 32	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UNE7	Entrez-Gene Id: 10273
Product Usage Information	•	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100	
Storage	torage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and les 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					rol and less than
Specificity/Sensitivity		CHIP (C3B6) Rabbit mAb detects endogenous levels of total CHIP protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues around Leu36 of human CHIP.				
Background		The carboxy terminus of Hsc70-interacting protein (CHIP, STUB1) is a co-chaperone protein and functional E3 ubiquitin ligase that links the polypeptide binding activity of Hsp70 to the ubiquitin proteasome system (1). Cytoplasmic CHIP protein contains three 34-amino acid TPR (tetratricopeptide repeat) domains at its amino terminus and a carboxy-terminal U-box domain. CHIP interacts with the molecular chaperones Hsc70-Hsp70 and Hsp90 through its TPR domain, while E3 ubiquitin ligase activity is confined to the U-box domain (2,3). The binding of CHIP to Hsp70 can stall the folding of Hsp70 client proteins and concomitantly facilitate the U-box dependent ubiquitination of Hsp70-bound substrates (4-6). CHIP appears to play a central role in cell stress protection (7) and is responsible for the degradation of disease-related proteins that include cystic fibrosis transmembrane conductance regulator (4), p53 (8), huntingtin and Ataxin-3 (9), Tau protein (10), and α-synuclein (11).				
Background Ro	eferences	1. McDonough, H. and Patterson, C. (2003) <i>Cell Stress Chaperones</i> 8, 303-8. 2. Ballinger, C.A. et al. (1999) <i>Mol Cell Biol</i> 19, 4535-45. 3. Murata, S. et al. (2001) <i>EMBO Rep 2</i> , 1133-8. 4. Meacham, G.C. et al. (2001) <i>Nat Cell Biol</i> 3, 100-5. 5. Younger, J.M. et al. (2004) <i>J Cell Biol</i> 167, 1075-85. 6. Jiang, J. et al. (2001) <i>J Biol Chem</i> 276, 42938-44. 7. Dai, Q. et al. (2003) <i>EMBO J</i> 22, 5446-58. 8. Esser, C. et al. (2005) <i>J Biol Chem</i> 280, 27443-8. 9. Jana, N.R. et al. (2005) <i>J Biol Chem</i> 280, 11635-40. 10. Shimura, H. et al. (2004) <i>J Biol Chem</i> 279, 4869-76. 11. Shin, Y. et al. (2005) <i>J Biol Chem</i> 280, 23727-34.				

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 W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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