1/1/24, 12:46 PM Revision 5

e at -20C	CHIP (C3B6) Rabbit mAb								
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Applications: WB, 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	Ap We Imr	plication stern Blotting nunoprecipitation			Dilution 1:1000 1:100			
Storage	Sup 0.02	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity / Sensiti	vity CHI	CHIP (C3B6) Rabbit mAb detects endogenous levels of total CHIP protein.						
Source / Purificatio	n Mor resid	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues around Leu36 of human CHIP.						
Background	The E3 u (1). amin Hsc dom facil cent that Tau	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 Refere	ences 1. M 2. B 3. M 4. M 5. Yr 6. Ji 7. D 8. E 9. Ja 10. S 11. S	cDonough, H. and F allinger, C.A. et al. (urata, S. et al. (200) eacham, G.C. et al. ounger, J.M. et al. (2 ang, J. et al. (2001) ai, Q. et al. (2003) <i>E</i> sser, C. et al. (2005) ana, N.R. et al. (2005) himura, H. et al. (2005)	Patterson, C. (20 1999) Mol Cell B 1) EMBO Rep 2, (2001) Nat Cell I 0004) J Cell Biol J Biol Chem 276 MBO J 22, 5446 J Biol Chem 280 5) J Biol Chem 2 04) J Biol Chem 280,	03) Cell Stress Chapero iol 19, 4535-45. 1133-8. Biol 3, 100-5. 167, 1075-85. 5, 42938-44. -58. 0, 27443-8. 80, 11635-40. 279, 4869-76. 23727-34.	nes 8, 303-8.			
Species Reactivity	Spec	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buffe	r IMPC 0.1%	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:	WB: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity Ke	ey H: hu X: Xe GP: 0	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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