Store at -200

Ubc12 (D13D7) Rabbit mAb



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or Research Use Only. Not for Use in Diagnostic Procedures.						
Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 21	Source/Isotype: Rabbit IgG	UniProt ID: #P61081	Entrez-Gene Id: 9040
Product Usage Information	Ар	plication		Dilution		
	We	stern Blotting		1:1000		
	Imr	Immunoprecipitation 1:50				
Storage		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 / Sens	itivity Ubc	Ubc12 (D13D7) Rabbit mAb detects endogeneous levels of total Ubc12 protein.				
Source / Purificat		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys36 of human Ubc12 protein.				
Background	of N is U NEI base pror cont sign	Similar to ubiquitin, NEDD8 is covalently linked to target proteins through an enzymatic cascade composed of NEDD8-specific E1 (activating)- and E2 (conjugating)-enzymes (1,2). The E2 ligase specific for NEDD8 is Ubc12 (3-5). Ubc12 forms a heterodimeric conjugate with NEDD8 in order to catalyze the transfer of NEDD8 from E1 to lysine side chains of target proteins (1,2). Well known targets of NEDD8 are cullin-based RING E3 ligases. Neddylation of cullin isoforms activates the related ubiquitin E3 complex by promoting its interaction with a cognate ubiquitin-E2 ligase (6-7). Neddylation of Cul-1 complexes containing β TrCP and SKP2 has been shown to be required for controlling the stability of important signaling targets such as IkB, NF-kB, and p27 Kip (8-10), thereby regulating cell cycle progression, signaling cascades, and developmental programming processes (11).				
Background Refe	1. Huang, D.T. et al. (2007) <i>Nature</i> 445, 394-8. 2. Huang, D.T. et al. (2005) <i>Mol Cell</i> 17, 341-50. 3. Liakopoulos, D. et al. (1998) <i>EMBO J</i> 17, 2208-14. 4. Gong, L. and Yeh, E.T. (1999) <i>J Biol Chem</i> 274, 12036-42. 5. Wada, H. et al. (2000) <i>J Biol Chem</i> 275, 17008-15. 6. Sakata, E. et al. (2007) <i>Nat Struct Mol Biol</i> 14, 167-8. 7. Kawakami, T. et al. (2001) <i>EMBO J</i> 20, 4003-12. 8. Podust, V.N. et al. (2000) <i>Proc Natl Acad Sci USA</i> 97, 4579-84.					

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 IP: Immunoprecipitation

9. Wu, K. et al. (2002) J Biol Chem 277, 516-27. 10. Amir, R.E. et al. (2002) J Biol Chem 277, 23253-9. 11. Herrmann, J. et al. (2007) Circ Res 100, 1276-91.

Cross-Reactivity Key

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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Limited Uses

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