

Ubiquitin (E4I2J) Rabbit mAb (Biotinylated)



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W	Reactivity: All	Sensitivity: Endogenous	MW (kDa): 9-300	Source/Isotype: Rabbit IgG	UniProt ID: #P62987, #P0CG48, #P0CG47, #P62979	Entrez-Gene Id: 7311, 7316, 7314, 6233
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 136 mM NaCl, 2.6 mM KCI, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity		Ubiquitin (E4I2J) Rabbit mAb (Biotinylated) recognizes endogenous levels of free ubiquitin and polyubiquitinated proteins. This antibody is able to detect free ubiquitin, linear polyubiquitin (M1-linked), and homotypic polyubiquitin chains consisting of K6, K11, K27, K29, K33, K48, and K63 linkages.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly35 of human ubiquitin protein.				
Description		This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Ubiquitin (E4I2J) Rabbit mAb #43124.				
Background		Ubiquitin is a conserved polypeptide unit that plays an important role in the ubiquitin-proteasome pathway. Ubiquitin can be covalently linked to many cellular proteins by the ubiquitination process, which targets proteins for degradation by the 26S proteasome. Three components are involved in the target protein-ubiquitin conjugation process. Ubiquitin is first activated by forming a thiolester complex with the activation component E1; the activated ubiquitin is subsequently transferred to the ubiquitin-carrier protein E2, then from E2 to ubiquitin ligase E3 for final delivery to the epsilon-NH ₂ of the target protein lysine residue (1-3). The ubiquitin-proteasome pathway has been implicated in a wide range of normal biological processes and in disease-related abnormalities. Several proteins such as IkB, p53, cdc25A, and Bcl-2 have been shown to be targets for the ubiquitin-proteasome process as part of regulation of cell cycle progression, differentiation, cell stress response, and apoptosis (4-7).				
Background References		 Ciechanover, A. (1998) EMBO J 17, 7151-60. Hochstrasser, M. (2000) Nat Cell Biol 2, E153-7. Hochstrasser, M. (2000) Science 289, 563-4. Bernardi, R. et al. (2000) Oncogene 19, 2447-54. Aberle, H. et al. (1997) EMBO J 16, 3797-804. Salomoni, P. and Pandolfi, P.P. (2002) Nat Cell Biol 4, E152-3. Jesenberger, V. and Jentsch, S. (2002) Nat Rev Mol Cell Biol 3, 112-21. 				
Species Reacti	vity	Species reactivity is d	etermined by testin	g in at least one appro	oved application (e.g., w	vestern 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

Cross-Reactivity Key All: All Species Expected

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