

## K48-linkage Specific Polyubiquitin (D9D5) Rabbit mAb (HRP Conjugate)



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Applications: F	Reactivity: All	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	
Product Usage Information		<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000	
Storage			l, 3 mM KCI, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium mg/mL BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>	
Specificity/Sensitivity		K48-linkage Specific Polyubiquitin (D9D5) Rabbit mAb (HRP Conjugate) detects polyubiquitin chains formed by Lys48 residue linkage. This antibody does not react with monoubiquitin or polyubiquitin chains formed by specific linkage to a different lysine residue.		
Source / Purification	1		produced by immunizing animals with a synthetic peptide corresponding to e Lys48 branch of the human diubiquitin chain.	
Description		peroxidase (HRP) via its a	ology antibody is conjugated to the carbohydrate groups of horseradish amine groups. The HRP conjugated antibody is expected to exhibit the same is the unconjugated K48-linkage Specific Polyubiquitin (D9D5) Rabbit mAb	
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 <sub>2</sub> 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		<ol> <li>Ciechanover, A. (1998) EMBO J 17, 7151-60.</li> <li>Hochstrasser, M. (2000) Nat Cell Biol 2, E153-7.</li> <li>Hochstrasser, M. (2000) Science 289, 563-4.</li> <li>Bernardi, R. et al. (2000) Oncogene 19, 2447-54.</li> <li>Aberle, H. et al. (1997) EMBO J 16, 3797-804.</li> <li>Salomoni, P. and Pandolfi, P.P. (2002) Nat Cell Biol 4, E152-3.</li> <li>Jesenberger, V. and Jentsch, S. (2002) Nat Rev Mol Cell Biol 3, 112-21.</li> </ol>		
Species Reactivity		Species reactivity is dete	rmined by testing in at least one approved application (e.g., western blot).	

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**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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