3936 Store at -20C

Ubiquitin (P4D1) Mouse mAb



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Applications:Reactivity:Sensitivity:Source/Isotype:UniProt ID:Entrez-Gene Id:WB, IHC-PAllEndogenousMouse IgG1#P62987, #P0CG48, #P0CG48, #P0CG47, #P62979

Product Usage
InformationApplicationDilutionWestern Blotting1:1000Immunohistochemistry (Paraffin)1:100 - 1:400

Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than

0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #70990.

Specificity / Sensitivity Ubiquitin (P4D1) Mouse mAb detects ubiquitin, polyubiquitin and ubiquitinated proteins. This antibody may

cross-react with recombinant NEDD8.

Source / Purification Monoclonal antibody is produced by immunizing animals with 1-76 full length bovine ubiquitin.

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-NH₂ 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 1. Ciechanover, A. (1998) *EMBO J* 17, 7151-60.

2. Hochstrasser, M. (2000) Nat Cell Biol 2, E153-7.

3. Hochstrasser, M. (2000) *Science* 289, 563-4.

4. Bernardi, R. et al. (2000) Oncogene 19, 2447-54.

5. Aberle, H. et al. (1997) EMBO J 16, 3797-804.

6. Salomoni, P. and Pandolfi, P.P. (2002) Nat Cell Biol 4, E152-3.

7. Jesenberger, V. and Jentsch, S. (2002) Nat Rev Mol Cell Biol 3, 112-21.

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 nonfat dry

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin)

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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