1/1/24, 9:43 AM Revision 1

Species Reactivity

| e at -20C | POMP (D2X9S) Rabbit mAb | HE C | Cell Signaling тесниогоду [®] |
|-----------|-------------------------|------------------------|--|
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|---------------|-----------|--------------|---------------|-------------|
| FOI INESCAICI | USE Only | | in Diagnostic | FIOCEUUICS. |

| Product Usage Information Appication Dilution Vestern Blotting Inmunoprecipitation 1:1000 1:200 Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml B-S - 50% glycerol and less that 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml B-S - 50% glycerol and less that 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml B-S - 50% glycerol and less that 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml B-S - 50% glycerol and less that 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml B-S - 50% glycerol and less that 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml B-S - 50% glycerol and less that 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml B-S - 50% glycerol and less that 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml B-S - 50% glycerol and less that 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. Supplied in 10 mM Sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml B-S - 50% glycerol and less that 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. Supplied in 10 mM Sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml B-S - 50% glycerol and less that 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. <t< th=""><th>ene Id: 71</th></t<> | ene Id: 71 | | | | | |
|--|--|--|--|--|--|--|
| StorageSupplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less tha 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.Specificity / SensitivityPOMP (D2X9S) Rabbit mAb recognizes endogenous levels of total POMP protein.Species predicted to react based on 100% sequence homology:Bovine | | | | | | |
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| Species predicted toBovinereact based on 100%Sequence homology: | POMP (D2X9S) Rabbit mAb recognizes endogenous levels of total POMP protein. | | | | | |
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| Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human POMP protein. | | | | | | |
| Background The 26S proteasome is a highly abundant proteolytic complex involved in the degradation of ubiquitinal substrate proteins. It consists largely of the 20S catalytic core particle (CP) and the 19S/PA700 regulat particle (RP) that caps either end of the CP. The CP consists of two stacked heteroheptameric β-rings 7) that contain three catalytic β-subunits flanked on either side by two heteroheptameric α-rings (α1-7). RP includes multimeric base and lid complexes. The RP base includes a heterohexameric ring of ATPa subunits that unfold the substrate and open the α-subunit gate to expose the substrate to the catalytic subunits. The lid consists of ubiquitin receptors and DUBs that recruit ubiquitinated substrates and mor ubiquitin chain topology (1,2). Proteasome activity modulators, such as PA28/11S REG, bind the 20S of cylinder end and open the CP channel (1,2). Proteasome maturation protein (POMP, proteassemblin, hUMP1) is an integral factor essential for assembly of the 20S catalytic core particle during mammalian proteasome biogenesis. POMP promote heteroheptameric β-ring formation and dimerization of half-proteasomes during core particle assembly POMP protein undergoes proteasomal degradation following 20S CP complex assembly and activation 6). Research studies suggest that POMP is required for CP assembly for both constitutive proteasome and immunoproteasomes, and that the assembly focal point resides at the endoplasmic reticulum (6-8 single nucleotide deletion in the 5' UTR of POMP results in altered epidermal POMP distribution and the autosomal recessive skin disorder known as KLICK syndrome (9). | ted ory $(\beta 1-$. The ase β - dify CP . The n (3- is). A ne | | | | | |
| Background References 1. Finley, D. (2009) Annu Rev Biochem 78, 477-513. 2. Lee, M.J. et al. (2011) Mol Cell Proteomics 10, R110.003871. 3. Griffin, T.A. et al. (2000) Mol Cell Biol Res Commun 3, 212-7. 4. Witt, E. et al. (2000) J Mol Biol 301, 1-9. 5. Ramos, P.C. et al. (1998) Cell 92, 489-99. 6. Fricke, B. et al. (2007) EMBO Rep 8, 1170-5. 7. Heink, S. et al. (2005) Proc Natl Acad Sci U S A 102, 9241-6. 8. Heink, S. et al. (2006) Cancer Res 66, 649-52. 9. Dahlqvist, J. et al. (2010) Am J Hum Genet 86, 596-603. | | | | | | |

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

| 1/1/24, 9:43 AM | POMP (D2X9S) Rabbit mAb (#15141) Datasheet Without Images Cell Signaling Technology | | | |
|---------------------------|---|--|--|--|
| 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 | | | |
| 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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