#2412 Store at -20C

PA28y Antibody



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| Applications: WB, IP, IHC-P, IF-IC | Reactivity: H M R Mk | Sensitivity: Endogenous | MW (kDa): 30 | Source: Rabbit | UniProt ID: #P61289 | Entrez-Gene Id: 10197 | |
|--|---|---|------------------------|-------------------|----------------------------|--------------------------|--|
| Product Usage Information | Ap | plication | | | | Dilution | |
| | We | stern Blotting | | | | 1:1000 | |
| | lmı | nunoprecipitation | | | | 1:100 | |
| | lmı | nunohistochemistry | / (Paraffin) | | | 1:25 | |
| | Imi | munofluorescence (| (Immunocytochemis | stry) | | 1:25 | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody. | | | | | |
| Specificity / Sensitivity PA28y Antibody detects endogenous levels of total PA28y. | | | | | | | |
| Source / Purificatio | resi | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp16 of human PA2y. Antibodies are purified by protein A and peptide affinity chromatography. | | | | | |
| Background | PA7 prot (PS binc part fore PA2 | The 20S proteasome is the major proteolytic enzyme complex involved in intracellular protein degradation. PA700, PA28, and PA200 are three major protein complexes that function as activators of the 20S proteasome. There are three evolutionarily conserved subunits of PA28: PA28α (PSME1), PA28β (PSME2), and PA28γ (PSME3) (1,2). PA28α and PA28β form a heteroheptameric complex and function by binding to the 20S complex at its opening site(s). The PA28α/β complex is present throughout the cell and participates in MHC class I antigen presentation by promoting the generation of antigenic peptides from foreign proteins (2). PA28γ exists in the form of a homoheptamer and is mainly located in the nucleus. The PA28γ complex exerts its function by binding and guiding specific nuclear target proteins to the 20S proteasome for further degradation (3,4). | | | | | |
| Background Refere | 2. R 3. Z | Dahlmann, B. (2005) Essays Biochem. 41, 31-48. Rechsteiner, M. and Hill, C.P. (2005) Trends Cell Biol. 15, 27-33. Zhou, P. (2006) Cell 124, 256-257. Li, X. et al. (2006) Cell 124, 381-392. | | | | | |

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 IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)

IF-IC: Immunofluorescence (Immunocytochemistry)

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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