Store at -200

PA28α Antibody



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| Applications: WB | Reactivity: H M R Hm Mk | Sensitivity: Endogenous | MW (kDa): 28 | Source: Rabbit | UniProt ID: #Q06323 | Entrez-Gene Id: 5720 |
|---------------------------|--|--|------------------------|-------------------|------------------------|-------------------------|
| Product Usage | Application | | | Dilution | | |
| Information | Western Blotting | | | 1:1000 | | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 10°C. Do not aliquot the antibody. | | | | |
| Specificity / Sensitivity | | PA28alpha Antibody detects endogenous levels of total PA28α protein. | | | | |
| Source / Purifica | resid | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys13 of human PA28α. Antibodies are purified by protein A and peptide affinity chromatography. | | | | |
| Background | PA70 prote (PSM bindi partic foreiç | 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: PA28 α (PSME1), PA28 α (PSME2), and PA28 α (PSME3) (1,2). PA28 α and PA28 α form a heteroheptameric complex and function by binding to the 20S complex at its opening site(s). The PA28 α / α 0 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). PA28 α 9 exists in the form of a homoheptamer and is mainly located in the nucleus. The PA28 α 9 complex exerts its function by binding and guiding specific nuclear target proteins to the 20S | | | | |

Background References

- 1. Dahlmann, B. (2005) Essays Biochem. 41, 31-48.
- 2. Rechsteiner, M. and Hill, C.P. (2005) Trends Cell Biol. 15, 27-33.
- 3. Zhou, P. (2006) Cell 124, 256-257.

proteasome for further degradation (3,4).

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

Applications Key WB: Western Blotting

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

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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