59 Store at -20C

PSMA6 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: Reactivity: Sensitivity: MW (kDa): Source: UniProt ID: Entrez-Gene Id: WB H M R Mk Endogenous 26 Rabbit #P60900 5687

Product Usage Application

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 – 20°C. Do not aliquot the antibody.

20 C. Do not allquot the antibody.

Specificity / Sensitivity PSMA6 Antibody detects endogenous levels of total PSMA6 protein.

Source / Purification Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding residue

surrounding Arg93 of human PSMA6 protein. Antibodies are purified by protein A and peptide affinity

chromatography.

Background The 20S proteasome is the major proteolytic enzyme complex involved in intracellular protein degradation.

It consists of four stacked rings, each with seven distinct subunits. The two outer layers are identical rings composed of α subunits (called PSMAs), and the two inner layers are identical rings composed of β subunits. While the catalytic sites are located on the β rings (1-3), the α subunits are important for assembly and as binding sites for regulatory proteins (4). Seven different α and ten different β proteasome genes have been identified in mammals (5). PA700, PA28, and PA200 are three major protein complexes that function as activators of the 20S proteasome. PA700 binds polyubiquitin with high affinity and associates with the 20S proteasome to form the 26S proteasome, which preferentially degrades polyubiquitinated proteins (1-3). The proteasome has a broad substrate spectrum that includes cell cycle regulators, signaling molecules, tumor suppressors, and transcription factors. By controlling the degradation of these intracellular proteins, the proteasome functions in cell cycle regulation, cancer

development, immune responses, protein folding, and disease progression (6-9).

Background References 1. Dahlmann, B. (2005) Essays Biochem. 41, 31-48.

2. Pickart, C.M. and Cohen, R.E. (2004) Nat. Rev. Mol. Cell Biol. 5, 177-87.

3. Nandi, D. et al. (2006) J. Biosci. 31, 137-55.

4. Lupas, A. et al. (1993) Enzyme Protein 47, 252-73.

5. Monaco, J.J. and Nandi, D. (1995) Annu. Rev. Genet. 29, 729-54.

6. Murray, A.W. (2004) Cell 116, 221-34.

7. Ciechanover, A. (2006) Proc. Am. Thorac. Soc. 3, 21-31.

8. Wang, J. and Maldonado, M.A. (2006) Cell. Mol. Immunol. 3, 255-61.

9. Rubinsztein, D.C. (2006) Nature 443, 780-6.

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

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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