PA28γ Antibody

## Cell Signaling TECHNOLOGY\* Orders: 877-616-CELL (2355) orders@cellsignal.com



Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W, IP, IHC-P, IF-IC	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 30	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P61289	Entrez-Gene Id: 10197
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Immunohistochemisti Immunofluorescence	-	istry)		<b>Dilution</b> 1:1000 1:100 1:25 1:25
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.				
Specificity/Sensitivity		PA28γ Antibody detects endogenous levels of total PA28γ.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp16 of human PA2γ. 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. 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 $\alpha$ (PSME1), PA28 $\beta$ (PSME2), and PA28 $\gamma$ (PSME3) (1,2). PA28 $\alpha$ and PA28 $\beta$ form a heteroheptameric complex and function by binding to the 20S complex at its opening site(s). The PA28 $\alpha/\beta$ 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 $\gamma$ exists in the form of a homoheptamer and is mainly located in the nucleus. The PA28 $\gamma$ complex exerts its function by binding and guiding specific nuclear target proteins to the 20S proteasome for further degradation (3,4).				
Background References		1. Dahlmann, B. (2005) <i>Essays Biochem</i> . 41, 31-48. 2. Rechsteiner, M. and Hill, C.P. (2005) <i>Trends Cell Biol.</i> 15, 27-33. 3. Zhou, P. (2006) <i>Cell</i> 124, 256-257. 4. Li, X. et al. (2006) <i>Cell</i> 124, 381-392.				
Species Reactiv	/ity	Species reactivity is de	termined by testin	g in at least one approve	ed 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		<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation <b>IHC-P:</b> Immunohistochemistry (Paraffin) <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.				
		Alexa Fluor is a registe	ered trademark of L	ife Technologies Corpor	ation.	
		All other trademarks a more information.	re the property of	heir respective owners.	Visit cellsignal.com	/trademarks for
Limited Uses		Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.				

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.