

## PA28α Antibody



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	<b>Reactivity:</b> H M R Hm Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 28	Source/Isotype: Rabbit	UniProt ID: #Q06323	Entrez-Gene Id: 5720
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM so 20°C. Do not aliquot t	'1	i), 150 mM NaCl, 100 μg	/ml BSA and 50% gl	ycerol. Store at –
Specificity/Sensitivity		PA28alpha Antibody detects endogenous levels of total PA28α protein.				
Source / Purification		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	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 the 20S proteasome. There are three evolutionarily conserved subunits of PA28: PA28α (PSME1), PA2 (PSME2), and PA28γ (PSME3) (1,2). PA28α and PA28β form a heteroheptameric complex and function binding to the 20S complex at its opening site(s). The PA28α/β complex is present throughout the cand participates in MHC class I antigen presentation by promoting the generation of antigenic pept 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 protein to the 20S proteasome for further degradation (3,4).					
Background Re	eferences	<ol> <li>Dahlmann, B. (2005) Essays Biochem. 41, 31-48.</li> <li>Rechsteiner, M. and Hill, C.P. (2005) Trends Cell Biol. 15, 27-33.</li> <li>Zhou, P. (2006) Cell 124, 256-257.</li> <li>Li, X. et al. (2006) Cell 124, 381-392.</li> </ol>				
Species Reactiv	vitv	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).

Species Reactivity

ecies 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** 

W: Western Blotting

**Cross-Reactivity Key** 

H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

**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

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.