e at -20C	PSMD2 (D6W7G) Rabbit mAb		Cell Signaling		
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com		
5430		Support:	877-678-TECH (8324)		
±254		Web:	info@cellsignal.com cellsignal.com		
#		3 Trask Lane Danvers	Massachusetts 01923 USA		

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 97	Source/Isotype: Rabbit IgG	UniProt ID: #Q13200	Entrez-Gene Id: 5708		
Product Usage Information	•	oplication estern Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity / Sensitivity		PSMD2 (D6W7G) Rabbit mAb recognizes endogenous levels of total PSMD2 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys350 of human PSMD2 protein.						
Background		The 26S proteasome is a highly abundant proteolytic complex involved in the degradation of ubiquitinated substrate proteins. It consists largely of two sub-complexes, the 20S catalytic core particle (CP) and the 19S/PA700 regulatory particle (RP) that can cap either end of the CP. The CP consists of two stacked heteroheptameric β -rings (β_{1-7}) that contain three catalytic β -subunits and are flanked on either side by two heteroheptameric α -rings (α_{1-7}). The RP includes a base and a lid, each having multiple subunits. The base, in part, is composed of a heterohexameric ring of ATPase subunits belonging to the AAA (ATPases Associated with diverse cellular Activities) family. The ATPase subunits function to unfold the substrate and open the gate formed by the α -subunits, thus exposing the unfolded substrate to the catalytic β -subunits. The lid consists of ubiquitin chain topology (1,2). Other modulators of proteasome activity, such as PA28/11S REG, can also bind to the end of the 20S CP and activate it (1,2). Regulatory particle non-ATPase 1 (RPN1, PSMD2) is a subunit of the 19S/PA700 regulatory particle base subcomplex. The PSMD2 protein acts as part of the scaffold for assembly of the 19S/PA700 RP base subcomplex (3). Research studies demonstrate that PSMD2 binds the intracellular domain of type I TNF receptor, indicating that the 26S proteasome may play a role in the TNF signaling pathway (4,5). PSMD2 expression correlates with poor prognosis in lung cancer patients, and induced inhibition of PSMD2 results in decreased proteasome activity and increased apoptosis in lung cancer cells (6).						
Background Refer	2. L 3. F 4. T 5. D	Lee, M.J. et al. (2011) Rosenzweig, R. et al. Isurumi, C. et al. (199 Dunbar, J.D. et al. (19	nnu Rev Biochem 78, 477-513. L1) Mol Cell Proteomics 10, R110.003871. al. (2008) Nat Struct Mol Biol 15, 573-80. 996) Eur J Biochem 239, 912-21. 1997) J Immunol 158, 4252-9. L. (2011) Mol Carcinog 50, 301-9.					
Species Reactivity	y Spee	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						
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 						
Trademarks and Patents		0 0 0,	is a trademark of Cell Signaling Technology, Inc. ne property of their respective owners. Visit cellsignal.com/trademarks for more					

PSMD2 (D6W7G) Rabbit mAb (#25430) Datasheet Without Images Cell Signaling Technology

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.