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e at -20C	Cathepsin D Antibody		Cell Signaling TECHNOLOGY®		
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
34		Support:	877-678-TECH (8324)		
#2284		Web:	info@cellsignal.com cellsignal.com		
#		3 Trask Lane Danvers Mas	sachusetts 01923 USA		

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

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Applications: WB	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 46, 43, 28	Source: Rabbit	UniProt ID: #P07339	Entrez-Gene Id: 1509			
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 and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.							
Specificity / Sensitivity		Cathepsin D Antibody detects endogenous levels of preprocathepsin D, procathepsin D and the heavy chain subunit of mature cathepsin D.							
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues with the heavy chain subunit of human Cathepsin D. Antibodies are purified by protein A and peptide affinity chromatography.							
Background		Cathepsin D is a ubiquitously expressed lysosomal aspartyl protease involved in the normal degradation of proteins (1). It is synthesized as an inactive 43 kDa preprocathepsin D that is cleaved and glycosylated to form a 46 kDa procathepsin D and then further cleaved to produce 28 kDa and 15 kDa subunits (heavy and light chains, respectively) (2). Cathepsin D may also be secreted into the cytosol during apoptosis and contribute to cleavage of substrates implicated in the apoptotic pathway (3). Numerous studies have suggested that cathepsin D plays a role in neuronal degradation and malignant transformation, particularly in breast cancer (4-9).							
Background References		 Faust, P.L. et al. (1985) <i>Proc. Natl. Acad. Sci. USA</i> 82, 4910-4. Erickson, A.H. et al. (1981) <i>J. Biol .Chem.</i> 256, 11224-31. Liaudet-Coopman, E. et al. (2006) <i>Cancer Lett.</i> 237, 167-79. Berchem, G. et al. (2002) <i>Oncogene</i> 21, 5951-5. Nomura, T. and Katunuma, N. (2005) <i>J. Med. Invest.</i> 52, 1-9. Garcia, M. et al. (1996) <i>Stem Cells</i> 14, 642-50. Nogami, M. et al. (2000) <i>Histochem. J.</i> 32, 505-8. Nakanishi, H. (2003) <i>Ageing Res. Rev.</i> 2, 367-81. Callahan, L.M. et al. <i>Neurobiol. Aging</i> 19, S99-105. 							
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		: 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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Cathepsin D Antibody (#2284) Datasheet Without Images Cell Signaling Technology

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