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e at -20C	Caspase-5 (D3G4W) Rabbit mAb	T C	Cell Signaling	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
380		Support:	877-678-TECH (8324)	
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#		3 Trask Lane Danvers M	Aassachusetts 01923 USA	

Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 50, 44, 35	Source/Isotype: Rabbit IgG	UniProt ID: #P51878	Entrez-Gene Id: 838	
Product Usage Information	W	pplication /estern Blotting nmunoprecipitation			Dilution 1:1000 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		Caspase-5 (D3G4W) Rabbit mAb recognizes endogenous levels of total caspase-5 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro154 of human caspase-5 protein.					
Background Background References		 Caspase-5 (Ich-3/ICE_{rel}III/TY) is a member of the caspase family of cysteine proteases that play a key role in the execution of apoptosis and activation of inflammatory cytokines (1-3). Caspase-5 is widely expressed, with highest expression observed in placenta and lung (1). Interferon-γ and LPS regulate expression of caspase-5 (2,4). Members of the caspase-1 subfamily of caspases, which includes caspase-4, -5, and murine caspase-11 and -12, can induce apoptosis when over-expressed and mediate the proteolytic activation of inflammatory cytokines (5). Processing of IL-1β occurs through the activation of an inflammasome complex consisting of caspase-1, caspase-5, Pycard and NALP1 (6). Transcription factor Max, a component of the Myc/Mad/Max network, is cleaved by caspase-5 during Fas-induced apoptosis (7). Several alternative spliced variants of caspase-5 have been identified (8). Frameshift mutations of caspase-5 have been observed in leukemia, lymphoma (9), and colorectal cancers (10). Munday, N.A. et al. (1995) <i>J Biol Chem</i> 270, 15870-6. Wang, S. et al. (1996) <i>J Biol Chem</i> 271, 20580-7. Faucheu, C. et al. (1996) <i>Eur J Biochem</i> 236, 207-13. Lin, X.Y. et al. (2000) <i>J Biol Chem</i> 275, 39920-6. Martinon, F. and Tschopp, J. (2007) <i>Cell Death Differ</i> 14, 10-22. Martinon, F. et al. (2002) <i>Mol Cell</i> 10, 417-26. Krippner-Heidenreich, A. et al. (2001) <i>Biochem</i> J 358, 705-15. Eckhart, L. et al. (2003) <i>Leuk Res</i> 27, 359-61. Trojan, J. et al. (2004) <i>Int J Colorectal</i> 138, 705-15. 					
Species Reactivity	/ Spe	cies reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., we	stern 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	WE	B: Western Blotting IP:	Immunoprecipi	tation			
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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Caspase-5 (D3G4W) Rabbit mAb (#46680) Datasheet Without Images Cell Signaling Technology

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