Caspase-5 (D3G4W) Rabbit mAb



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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 50, 44, 35	Source/Isotype: Rabbit IgG	UniProt ID: #P51878	Entrez-Gene Id: 838
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
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		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		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).				
Background References		 Munday, N.A. et al. (1995) J Biol Chem 270, 15870-6. Wang, S. et al. (1996) J Biol Chem 271, 20580-7. Faucheu, C. et al. (1996) Eur J Biochem 236, 207-13. Lin, X.Y. et al. (2000) J Biol Chem 275, 39920-6. Martinon, F. and Tschopp, J. (2007) Cell Death Differ 14, 10-22. Martinon, F. et al. (2002) Mol Cell 10, 417-26. Krippner-Heidenreich, A. et al. (2001) Biochem J 358, 705-15. Eckhart, L. et al. (2006) Biochem Biophys Res Commun 348, 682-8. Takeuchi, S. et al. (2003) Leuk Res 27, 359-61. Trojan, J. et al. (2004) Int J Colorectal Dis 19, 538-44. 				
Species Reacti	vity	Species reactivity is de	etermined 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 BSA, 1X				

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: Human

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