င္ရိ Cleaved Caspase-1 (Asp296) Antibody



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

Applications: W	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 22	Source/Isotype: Rabbit	UniProt ID: #P29452	Entrez-Gene Id: 12362		
Product Usage Information		ApplicationDilutionWestern Blotting1:1000						
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/Sen	sitivity	Cleaved Caspase-1 (Asp296) Antibody recognizes endogenous levels of Caspase-1 protein only when cleaved at Asp296.						
Species predict based on 100% homology		Rat						
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp296 of mouse Caspase-1 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		Caspase-1, or interleukin-1ß converting enzyme (ICE/ICE α), is a class I cysteine protease, which also includes caspases -4, -5, -11, and -12. Caspase-1 cleaves inflammatory cytokines such as pro-IL-1ß and interferon- γ inducing factor (IL-18) into their mature forms (1,2). Like other caspases, caspase-1 is proteolytically activated from a proenzyme to produce a tetramer of its two active subunits, p20 and p10. Caspase-1 has a large amino-terminal pro-domain that contains a caspase recruitment domain (CARD). Overexpression of caspase-1 can induce apoptosis (3). Mice deficient in caspase-1, however, have no overt defects in apoptosis but do have defects in the maturation of pro-IL-1 β and are resistant to endotoxic shock (4,5). At least six caspase-1 isoforms have been identified, including caspase-1 α , β , γ , δ , ε , and ζ (6). Most caspase-1 isoforms (α , β , γ , and δ) produce products between 30-48 kDa and induce apoptosis upon overexpression. Caspase-1 ε typically contains only the p10 subunit, does not induce apoptosis, and may act as a dominant negative. The widely expressed ζ isoform of caspase-1 induces apoptosis and lacks 39 amino-terminal residues found in the α isoform (6). Activation of caspase-1 occurs through an oligomerization molecular platform designated the "inflammasome" that includes caspase-5, Pycard/Asc, and NALP1 (7).						
Background Re	eferences	1. Thornberry, N.A. et al. (1992) <i>Nature</i> 356, 768-74. 2. Martinon, F. and Tschopp, J. (2004) <i>Cell</i> 117, 561-74. 3. Miura, M. et al. (1993) <i>Cell</i> 75, 653-60. 4. Kuida, K. et al. (1995) <i>Science</i> 267, 2000-3. 5. Li, P. et al. (1995) <i>Cell</i> 80, 401-11. 6. Feng, Q. et al. (2004) <i>Genomics</i> 84, 587-91. 7. Martinon, F. et al. (2002) <i>Mol Cell</i> 10, 417-26.						
Enocios Boastin	<i></i>	Spacias reactivity is do	tormined by testin	a in at least one approve	d application (o.g.	wortern blot)		
Species Reactiv	-	Species reactivity is de	termined by testin	g in at least one approve	a application (e.g.,	western blot).		
Western Blot B	Suffer		NT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X 6 Tween® 20 at 4°C with gentle shaking, overnight.					
Applications K	ey	W: Western Blotting						
Cross-Reactivit	су Кеу	M: Mouse						
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