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

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 20, 22	Source/Isotype: Rabbit IgG	UniProt ID: #P29466	Entrez-Gene Id: 834		
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:100			
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/Sensi	itivity	Cleaved Caspase-1 (Asp297) (D57A2) Rabbit mAb detects endogenous levels of the p20 subunit of human caspase-1 only upon cleavage at Asp297.						
Species predicte based on 100% s homology	d to react sequence	Monkey						
Source / Purifica	ntion	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues adjacent to Asp297 of human caspase-1.						
Background		Caspase-1, or interleuk includes caspases -4, interferon- $\gamma$ inducing f proteolytically activate p10. Caspase-1 has a la (CARD). Overexpressio have no overt defects i to endotoxic shock (4,5 $\gamma$ , $\delta$ , $\epsilon$ , and $\zeta$ (6). Most c induce apoptosis upon induce apoptosis, and induces apoptosis and caspase-1 occurs throu includes caspase-5, Pyo	kin-1ß converting e 5, -11, and -12. Cas factor (IL-18) into th d from a proenzym arge amino-termin n of caspase-1 can in apoptosis but do 5). At least six casp caspase-1 isoforms n overexpression. C may act as a domi lacks 39 amino-ter ugh an oligomeriza card/Asc, and NALI	enzyme (ICE/ICEα), is a cl pase-1 cleaves inflamma neir mature forms (1,2). The to produce a tetrame al pro-domain that cont induce apoptosis (3). Mi b have defects in the ma ase-1 isoforms have bee $(\alpha, \beta, \gamma, and \delta)$ produce caspase-1 $\epsilon$ typically cont nant negative. The wide rminal residues found in tion molecular platform P1 (7).	ass I cysteine prote atory cytokines such Like other caspases of its two active su ains a caspase recru ce deficient in casp turation of pro-IL-1 n identified, includi products between cains only the p10 s by expressed $\zeta$ isofo the $\alpha$ isoform (6). A designated the "in	ase, which also a s pro-IL-1ß and , caspase-1 is ibunits, p20 and uitment domain ase-1, however, $\beta$ and are resistant ng caspase-1 $\alpha$ , $\beta$ , 30-48 kDa and ubunit, does not rm of caspase-1 Activation of flammasome" that		
Background Ref	erences	1. Thornberry, N.A. et a 2. Martinon, F. and Tsc 3. Miura, M. et al. (1993 4. Kuida, K. et al. (1995 5. Li, P. et al. (1995) <i>Cel</i> 6. Feng, Q. et al. (2004) 7. Martinon, F. et al. (20	al. (1992) <i>Nature</i> 35 hopp, J. (2004) <i>Cell</i> 3) <i>Cell</i> 75, 653-60. ) <i>Science</i> 267, 2000 // 80, 401-11. ) <i>Genomics</i> 84, 587 002) <i>Mol Cell</i> 10, 4 <sup>-</sup>	56, 768-74. 1117, 561-74. 0-3. -91. 17-26.				
Species Reactivi	tv	Species reactivity is de	termined by testin	n in at least one approve	ed application (e.g.	western blot)		
Western Blot Bu	iffer	IMPORTANT: For wester TBS, 0.1% Tween® 20 a	ern blots, incubate at 4°C with gentle s	ite membrane with diluted primary antibody in 5% w/v BSA, 1X le shaking, overnight.				
Applications Key	/	W: Western Blotting IP	: Immunoprecipita	ation				
Cross-Reactivity	Key	H: Human						
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