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NLRC4 (D5Y8E) Rabbit mAb



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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 110	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NPP4	Entrez-Gene Id: 58484
Product Usage Information Storage	2			5), 150 mM NaCl, 100 µg.	Dilution 1:1000 1:100 /ml BSA, 50% glycer	ol and less than
				not aliquot the antibody.		
Specificity/Ser	-	NLRC4 (D5Y8E) Rabbit mAb recognizes endogenous levels of total NLRC4 protein. Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to				
Source / Purifi	cation	Monoclonal antibody i residues surrounding			synthetic peptide co	rresponding to
Background		The nucleotide-binding oligomerization domain (NOD)-like receptor (NLR) family of proteins is a diverse family of cytoplasmic innate immune receptors. They are characterized by the presence of an amino- terminal effector domain, which is often either a caspase activation and recruitment domain (CARD) or a pyrin domain (PYD), followed by a NACHT domain and carboxy-terminal leucine-rich-repeats (LRR) involved in recognition of pathogen-associated molecular patterns (PAMPs) (1). NLR proteins play a variety of roles during the innate immune response including pathogen sensing, transcriptional activation of proinflammatory cytokines through NF-κB, transcriptional activation of type I interferons through IRFs, and formation of inflammasomes leading to activation of inflammatory caspases (1-7). The NLRC4 (IPAF) inflammasome forms in response to bacterial flagellin as well as components of the bacterial conserved type II secretion system (TTSS) (8-12). Ligand detection and ligand-dependent NLRC4 oligomerization and inflammasome activation require the NAIP family of proteins (13,14). In mice, NAIP5 and NAIP6 associate with flagellin, while NAIP2 interacts with TTSS rod proteins (13,14). In humans, NAIP recognizes the TTSS needle protein Cprl (14). In addition, NLRC4 is phosphorylated by PKCδ in response to bacterial infection and this phosphorylation is required for inflammasome assembly and caspase-1 activation (15).				
Background R	eferences	 Elinav, E. et al. (2011 Inohara, N. et al. (19 Ogura, Y. et al. (200 Sabbah, A. et al. (200 Mariathasan, S. et a Agostini, L. et al. (20 Martinon, F. et al. (20 Martinon, F. et al. (20 Mariathasan, S. et a Poyet, J.L. et al. (200 Mariathasan, S. et a Franchi, L. et al. (20 Mariathasan, S. et a Franchi, L. et al. (20 Mariathasan, S. et a Franchi, L. et al. (20 Mao, E.A. et al. (20 Kofoed, E.M. and V Zhao, Y. et al. (2011) 	999) J Biol Chem 27 1) J Biol Chem 276, 09) Nat Immunol 1 I. (2004) Nature 43 004) Immunity 20, 3 002) Mol Cell 10, 4 1) J Biol Chem 276, I. (2004) Nature 43 006) Nat Immunol 7 006) Nat Immunol 7 010) Proc Natl Acao Vance, R.E. (2011) N 1) Nature 477, 596-	4, 14560-7. 4812-8. 0, 1073-80. 0, 213-8. 19-25. 17-26. 28309-13. 0, 213-8. 7, 576-82. 7, 569-75. <i>Sci U S A</i> 107, 3076-80. <i>lature</i> 477, 592-5. 600.		
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot E	Buffer	IMPORTANT: For west TBS, 0.1% Tween® 20		membrane with diluted shaking, overnight.	primary antibody ir	1 5% w/v BSA, 1X
Applications K	ey	W: Western Blotting I	P: Immunoprecipita	ation		
Cross-Reactivi	ty Key	H: Human				

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