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NLRP3 (D4D8T) Rabbit mAb



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Applications: W, W-S, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 110	Source/Isotype: Rabbit IgG	UniProt ID: #Q8R4B8	Entrez-Gene Id: 216799	
Product Usage Information		Application Western Blotting Simple Western™ Immunoprecipitation			Dilution 1:1000 1:10 - 1:50 1:200		
Storage		• •	**	s), 150 mM NaCl, 100 μg, ot aliquot the antibody.	/ml BSA, 50% glyce	rol and less than	
Specificity/Sensitivity		NLRP3 (D4D8T) Rabbit mAb recognizes endogenous levels of total NLRP3 protein.					
Species predicted to react based on 100% sequence homology		Hamster					
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala306 of mouse NLRP3 protein.					
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 aminoterminal 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). NLRP3 is an inflammasome-forming NLR that activates caspase-1 leading to maturation of IL-1β and IL-18 (8). The NLRP3 inflammasome is assembled in response to a wide variety of microbial and endogenous stimuli, and therefore it is unlikely the NLRP3 directly interacts with its activators (8). NLRP3 is expressed at highest levels in dendritic cells, monocytes, and macrophages (9).					
Background Re	ferences	1. Elinav, E. et al. (2011) <i>Immunity</i> 34, 665-79. 2. Inohara, N. et al. (1999) <i>J Biol Chem</i> 274, 14560-7. 3. Ogura, Y. et al. (2001) <i>J Biol Chem</i> 276, 4812-8. 4. Sabbah, A. et al. (2009) <i>Nat Immunol</i> 10, 1073-80. 5. Mariathasan, S. et al. (2004) <i>Nature</i> 430, 213-8. 6. Agostini, L. et al. (2004) <i>Immunity</i> 20, 319-25. 7. Martinon, F. et al. (2002) <i>Mol Cell</i> 10, 417-26. 8. Franchi, L. et al. (2012) <i>Nat Immunol</i> 13, 325-32. 9. Guarda, G. et al. (2011) <i>J Immunol</i> 186, 2529-34.					
Species Reactiv	ritv	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g	western blot).	

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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 **W-S:** Simple Western[™] **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human M: Mouse

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