For Research Use Only

NLRP3 Monoclonal antibody

Catalog Number:68102-1-lg Featured Product 105 Publications



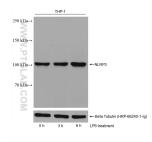
	Catalog Number: 68102-1-lg	GenBank Accession Number: NM_001079821	Purification Metho Protein A purification		
	Concentration:	GenelD (NCBI):	CloneNo.:		
	2000 ug/ml	114548	3H1A7		
	Source:	Full Name:	Recommended Di	lutions:	
	Mouse	NLR family, pyrin domain containing			
	Isotype:	3	IHC 1:50-1:500		
	lgG2a	Calculated MW: 118 kDa			
	Immunogen Catalog Number: AG26289	Observed MW:			
		110 kDa			
Applications	Tested Applications:	Positive Controls:			
	WB, IHC, ELISA	WB: THP-1 ce	WB : THP-1 cells, LPS treated THP-1 cells		
	Cited Applications: WB, IHC, IF, CoIP	IHC : human kidney tissue,			
	Species Specificity: human				
	Cited Species: human, chicken, bovine				
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
Background Information	NALP3, also named as C 1orf7, CIAS1 and PYPAF1, belongs to the NLRP family. NLRP3, a key and eponymous component of the NLRP3 inflammasome, plays a crucial role in innate immunity and inflammation. NALP3 may function as an inducer of apoptosis. It interacts selectively with ASC and this complex may function as an upstream activator of NF-kappa-B signaling.NALP3 inhibits TNF-alpha induced activation and nuclear translocation of RELA/NF-KB p65. Also inhibits transcriptional activity of RELA. NALP3 activates caspase-1 in response to a number triggers including bacterial or viral infection which leads to processing and release of IL1B and IL1B. Defects in NLRP3 are the cause of familial cold autoinflammatory syndrome type 1 (FCAS1) which also known as familial cold urticaria. Defects in NLRP3 are the cause of Muckle-Wells syndrome (MWS) which is urticaria-deafness-amyloidosis syndrome. Defects in NLRP3 are the cause of chronic inflamter or given inflammatory disease (NOMID). NLRP3 has some isoforms with the MW of 106-118 kDa and 75-83 kDa(PMID: 17164409, 34680443).				
Notable Publications	Author	Pubmod ID Journal		Application	
Notable Publications		Pubmed ID Journal		Application	
Notable Publications	Qiuyuan Liu	35907203 Inflamm Bowel Dis		WB	
Notable Publications	Qiuyuan Liu Lu Bai	35907203Inflamm Bowel Dis35910846Oxid Med Cell Longe		WB WB	
Notable Publications	Qiuyuan Liu Lu Bai	35907203 Inflamm Bowel Dis		WB	
Notable Publications Storage	Qiuyuan Liu Lu Bai	35907203 Inflamm Bowel Dis 35910846 Oxid Med Cell Longe 39914029 Biochim Biophys Act r after shipment.		WB WB	

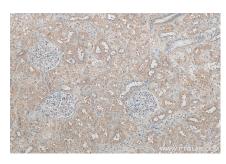
For technical support and original validation data for this product please contact: T: 4006900926 E: Proteintech-CN@ptglab.com W: ptg

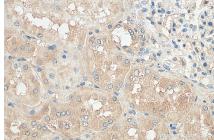
W: ptgcn.com

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Selected Validation Data







Non-treated THP-1 cells and LPS treated THP-1 cells were subjected to SDS PAGE followed by western blot with 68102-1-1g (NLRP3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Tubulin antibody as loading control.

Immunohistochemical analysis of paraffinembedded human kidney tissue slide using 68102-1-lg (NLRP3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffinembedded human kidney tissue slide using 68102-1-Ig (NLRP3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).