For Research Use Only

NLRP3 Polyclonal antibody Catalog Number: 19771-1-AP Featured Product

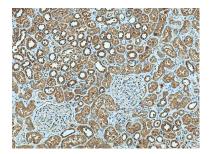
Featured Product 548 Publications



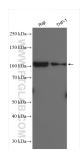
	Catalog Number: 19771-1-AP	GenBank Accession Number: NM_001127461		Purification Method: Antigen affinity purification	
	Concentration:			Recommended Dilutions:	
	600 ug/ml	114548		WB 1:500-1:1000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500	
	Source:	UNIPROT ID:			
	Rabbit	Q96P20			
	Isotype: IgG	Full Name: NLR family, pyrin domain containing 3		IF/ICC 1:50-1:500	
		Calculated MW: 118 kDa	MW:		
		Observed MW: 110 kDa			
Applications	Tested Applications:		Positive Cont	rols:	
	WB, IHC, IF/ICC, FC (Intra), IP, ELISA	WB:Raji co		, THP-1 cells, LPS treated THP-1 cells	
	Cited Applications: WB, IHC, IF, IP, CoIP, ELISA, Cell trea	atment	IP:THP-1 cell	P-1 cells,	
	Species Specificity:		IHC : human k	idney tissue,	
	human	IF/ICC : HepC		j2 cells,	
	Cited Species:				
	human, pig, bovine, goat 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 C1orf7, 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 of triggers including bacterial or viral infection which leads to processing and release of IL1B and IL18. Defects in NLRP3 are the cause of familial cold autoinflammatory syndrome type 1 (FCAS1) which is 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 infantile neurologic cutaneous and articular syndrome (CINCA) which is also known as neonatal onset multisystem inflammatory disease (NOMID). The antibody recognizes the C-term of NALP3.				
	activator of NF-kappa-B signaling.N RELA/NF-KB p65. Also inhibits trans triggers including bacterial or viral NLRP3 are the cause of familial colo cold urticaria. Defects in NLRP3 are amyloidosis syndrome. Defects in N syndrome (CINCA) which is also kn	scriptional activity of infection which lead d autoinflammatory s a cause of Muckle-We NLRP3 are the cause o wwn as neonatal onse	pha-induced activa RELA. NALP3 activa s to processing and syndrome type 1 (FC ells syndrome (MW3 f chronic infantile r	tion and nuclear translocation of tes caspase-1 in response to a numbe release of IL1B and IL18. Defects in CAS1) which is also known as familial 5) which is urticaria-deafness- teurologic cutaneous and articular	
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Notable Publications	activator of NF-kappa-B signaling.N RELA/NF-KB p65. Also inhibits trans triggers including bacterial or viral NLRP3 are the cause of familial colo cold urticaria. Defects in NLRP3 are amyloidosis syndrome. Defects in N syndrome (CINCA) which is also kn antibody recognizes the C-term of N Author Pu Yang Liu 360 Lin-Tao Xu 34	scriptional activity of infection which lead d autoinflammatory s a cause of Muckle-We NLRP3 are the cause o sown as neonatal onse NALP3. Journal D Journal 5175851 BM 4601084 J E	pha-induced activa RELA. NALP3 activa s to processing and syndrome type 1 (Fo ells syndrome (MW) f chronic infantile r et multisystem infla urnal	tion and nuclear translocation of tes caspase-1 in response to a number release of IL1B and IL18. Defects in CAS1) which is also known as familial 5) which is urticaria-deafness- teurologic cutaneous and articular ammatory disease (NOMID). The Application IF	
Notable Publications Storage	activator of NF-kappa-B signaling.N RELA/NF-KB p65. Also inhibits trans triggers including bacterial or viral NLRP3 are the cause of familial colo cold urticaria. Defects in NLRP3 are amyloidosis syndrome. Defects in N syndrome (CINCA) which is also kn antibody recognizes the C-term of N Author Pu Yang Liu 360 Lin-Tao Xu 34	scriptional activity of infection which lead d autoinflammatory s a cause of Muckle-We NLRP3 are the cause o iown as neonatal onse VALP3. ibmed ID Jou 5175851 BM 601084 J E 4650637 Exp	pha-induced activa RELA. NALP3 activa s to processing and syndrome type 1 (FG ells syndrome (MW2 f chronic infantile r et multisystem infla urnal IC Mol Cell Biol thnopharmacol	tion and nuclear translocation of tes caspase-1 in response to a numbe release of IL1B and IL18. Defects in CAS1) which is also known as familial 5) which is urticaria-deafness- leurologic cutaneous and articular ammatory disease (NOMID). The Application IF WB	

Group brand and is not available to purchase from any other manufacturer.

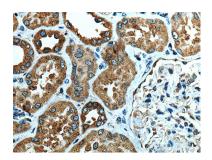
Selected Validation Data



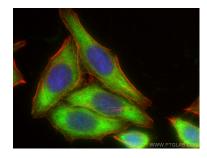
Immunohistochemical analysis of paraffinembedded human kidney tissue slide using 19771-1-AP (NLRP3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



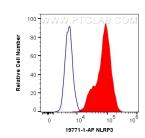
Various lysates were subjected to SDS PAGE followed by western blot with 19771-1-AP (NLRP3 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



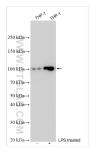
Immunohistochemical analysis of paraffinembedded human kidney tissue slide using 19771-1-AP (NLRP3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



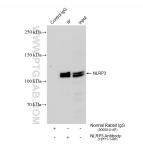
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using NLRP3 antibody (19771-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



1X10^6 THP-1 cells were intracellularly stained with 0.4 ug Anti-Human NLRP3 (19771-1-AP) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit lgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Various lysates were subjected to SDS PAGE followed by western blot with 19771-1-AP (NLRP3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-NLRP3 (IP:19771-1-AP, 4ug; Detection:19771-1-AP 1:1000) with THP-1 cells lysate 2480 ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using NLRP3 antibody (19771-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).