

NLRP3 Recombinant monoclonal antibody

Catalog Number: 82453-2-RR

Basic Information

Catalog Number: 82453-2-RR	GenBank Accession Number: NM_001079821	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 114548	CloneNo.: 251687B7
Isotype: IgG	UNIPROT ID: Q96P20	Recommended Dilutions: WB: 1:500-1:2000 IHC: 1:500-1:2000
Immunogen Catalog Number: AG26289	Full Name: NLR family, pyrin domain containing 3	
	Calculated MW: 118 kDa	
	Observed MW: 110 kDa	

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : LPS treated RAW 264.7 cells, LPS treated THP-1 cells

IHC : human tonsillitis tissue,

Background Information

NLRP3, also named as NALP3, CIASI, C1orf7, PYPAF1, Cryopyrin and MIM606416, belongs to NLR family. NLRP3, a key and eponymous component of the NLRP3 inflammasome, plays a crucial role in innate immunity and inflammation. NLRP3 inflammasome is expressed in immune cells, including monocytes, macrophages, and dendritic cells. When the NLRP3 inflammasome is activated, the PYD domain of NLRP3 mediates recruitment of an adaptor protein called ASC and the effector protein procaspase-1 to form an NLRP3 inflammasome complex that can cleave inactive procaspase-1 to form active caspase-1. And then the active caspase-1 results in secretion of interleukin (IL)-18 and IL-1 β . Activation of the NLRP3 inflammasome is also required for HMGB1 secretion. Inflammasomes can also induce pyroptosis, an inflammatory form of programmed cell death (PMID:27669650). NLRP3 has some isoforms with the MW of 106-118 kDa and 75-83 kDa.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

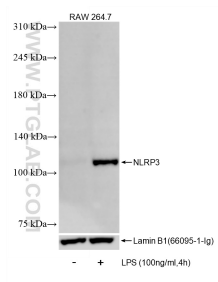
For technical support and original validation data for this product please contact:

T: 4006900926

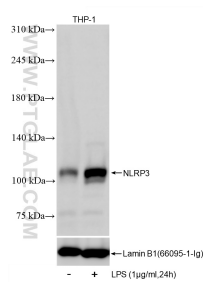
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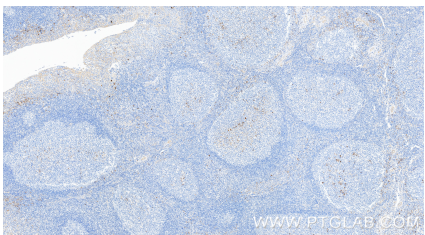
Selected Validation Data



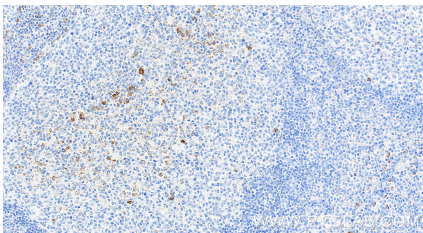
LPS treated RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 82453-2-RR (NLRP3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



LPS treated THP-1 cells were subjected to SDS PAGE followed by western blot with 82453-2-RR (NLRP3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 82453-2-RR (NLRP3 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 82453-2-RR (NLRP3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).