

# IHC*easy* NLRP3 Ready-To-Use IHC Kit

Catalog Number: **KHC1881**

## General Information

**Sample type:**  
FFPE tissue

**Cited sample type:**

**Reactivity:**  
Human, Mouse, Rat

**Cited Reactivity:**

**Assay type:**  
Immunohistochemistry

**Primary antibody type:**  
Rabbit Polyclonal

**Secondary antibody type:**  
Polymer-HRP-Goat anti-Rabbit

## Kit Component

Component	Size	Concentration
Antigen Retrieval Buffer	100 mL	50×
Washing Buffer	100 mL ×2	20×
Blocking Buffer	5 mL	RTU
Primary Antibody	5 mL	RTU
Secondary Antibody	5 mL	RTU
Chromogen Component A	0.2 mL	RTU
Chromogen Component B	4 mL	RTU
Signal Enhancer	5 mL	RTU
Counter Staining Reagent	5 mL	RTU
Mounting Media	5 mL	RTU
Control Slide	1 slide (Optional)	FFPE
Datasheet	1 Copy	
Manual	1 Copy	

## Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

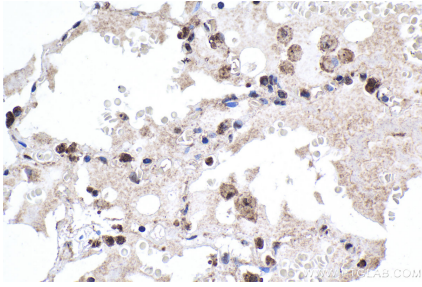
## Background

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 active caspase-1. And then the active caspase-1 results in secretion of interleukin (IL)-18 and IL-1 $\beta$ . Activation of the NLRP3 inflammasome is also required for HMGB1 secretion. Inflammasomes can also induce pyroptosis, an inflammatory form of programmed cell death.

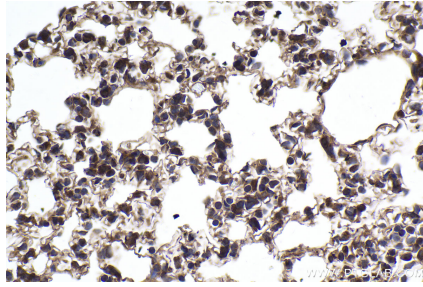
## Synonyms

AGTAVPRL, AII, AII/AVP, AVP, C1orf7, Caterpillar protein 1.1, CIAS1, CLR1.1, Cryopyrin, FCAS, FCU, MWS, NALP3, NLRP3, PYPAF1

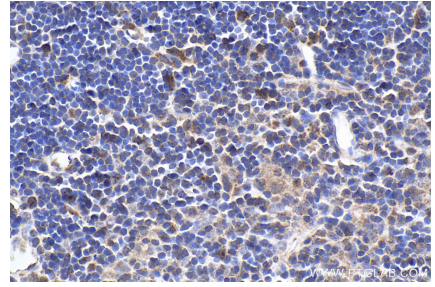
## Selected Validation Data



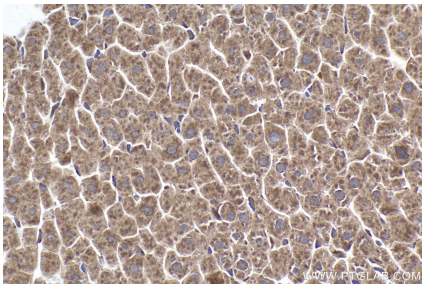
Immunohistochemical analysis of paraffin-embedded human lung tissue slide using KHC1881 (NLRP3 IHC Kit).



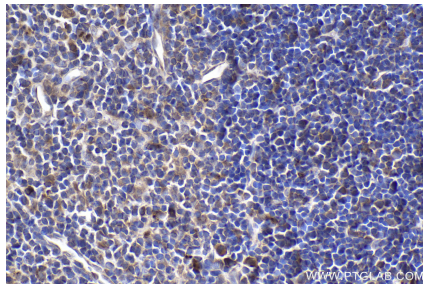
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using KHC1881 (NLRP3 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse thymus tissue slide using KHC1881 (NLRP3 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using KHC1881 (NLRP3 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat thymus tissue slide using KHC1881 (NLRP3 IHC Kit).