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Anti-NLRP3 Rabbit mAb [15D34]

Catalog No.: A52239

Basic Information

Catalog No. (Cat.No.)	A52239
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IP,IF,ELISA
Synonyms	NLRP3,NALP3,Cryopyrin,PYPAF1,CIAS1

Product Information

Target	NLRP3
Molecular Weight(Calculated)	118 kDa
Molecular Weight(Observed)	115 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	15D34
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:500-1:5000
IHC	1:200-1:1000
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	NLR family pyrin domain-containing-3
Gene Name	*NLRP3*
Domain	NA
Background	NLRP3 (NLR family pyrin domain containing 3) is NOD-like receptor inflammasome family protein sensing intracellular danger signals and mediating NLRP3 inflammasome assembly. Cytosolic NLRP3 detects stimuli including ATP, crystalline particles and PAMPs, undergoes oligomerization, recruits ASC and pro-caspase-1 to build inflammasome complex. Activated caspase-1 cleaves pro-IL-1β and pro-IL-18 into mature pro-inflammatory cytokines and triggers pyroptosis. Dysregulated NLRP3 activation contributes to gout, autoinflammatory disorders, neuroinflammation and tumor-microenvironment inflammation. Full NLRP3 activity requires two-step control: transcriptional priming followed by secondary trigger signal to complete inflammasome assembly, which tightly restricts inflammatory magnitude.