



Rabbit Anti-Human NLRP3 Polyclonal Antibody (CABT-L2082)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to NLR Family, Pyrin Domain Containing Protein 3 (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against NLRP3. It has been selected for its ability to recognize NLRP3 in immunohistochemical staining and western blotting.
Target	NLRP3
Immunogen	Recombinant fragment corresponding to human NLRP3 (Cys671~Trp1033)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

Introduction	This gene encodes a pyrin-like protein containing a pyrin domain, a nucleotide-binding site (NBS) domain, and a leucine-rich repeat (LRR) motif. This protein interacts with the apoptosis-associated speck-like protein PYCARD/ASC, which contains a caspase recruitment domain, and is a member of the NALP3 inflammasome complex. This complex functions as an upstream activator of NF-kappaB signaling, and it plays a role in the regulation of inflammation, the immune response, and apoptosis. Mutations in this gene are associated with familial cold autoinflammatory syndrome (FCAS), Muckle-Wells syndrome (MWS), chronic infantile neurological cutaneous and articular (CINCA) syndrome, and neonatal-onset multisystem inflammatory disease (NOMID). Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. Alternative 5 UTR structures are suggested by available data; however, insufficient evidence is available to determine if all of the represented 5 UTR splice patterns are biologically valid. [provided by RefSeq, Oct 2008]
Keywords	AVP;AGTAVPRL;AII;AII/AVP;C1orf7;CIAS1;CLR1.1;FCAS;FCU;MWS;NALP3;PYPAF1;Cryopyrin;Cold Induced Autoinflammatory Syndrome 1;Caterpillar-Like Receptor 1.1

GENE INFORMATION

Gene Name	NLRP3 NLR family, pyrin domain containing 3 [Homo sapiens (human)]
Official Symbol	NLRP3
Synonyms	NLRP3; NLR family, pyrin domain containing 3; AII; AVP; FCU; MWS; FCAS; CIAS1; FCAS1; NALP3; C1orf7; CLR1.1; PYPAF1; AGTAVPRL; NACHT, LRR and PYD domains-containing protein 3; cryopyrin; caterpillar protein 1.1; PYRIN-containing APAF1-like protein 1; NACHT, LRR and PYD containing protein 3; cold autoinflammatory syndrome 1 protein; NACHT domain-, leucine-rich repeat-, and PYD-containing protein 3; nucleotide-binding oligomerization domain, leucine rich repeat and pyrin domain containing 3;
Entrez Gene ID	114548
Protein Refseq	NP_001073289
UniProt ID	A0A024R5Q0
Chromosome Location	1q44

Pathway	Immune System; Inflammasomes; Influenza A; Innate Immune System; NOD pathway; NOD-like receptor signaling pathway; Nucleotide-binding domain, leucine rich repeat containing receptor (NLR) signaling pathways; Pertussis;
Function	ATP binding; peptidoglycan binding; protein binding;