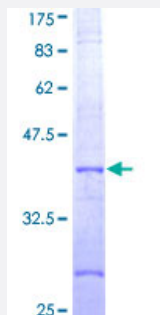


NLRP3 (Human) Recombinant Protein (Q01)

Catalog # H00114548-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human NLRP3 partial ORF (NP_004886, 1 a.a. - 100 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MKMASTRCKLARYLEDLEDVDLKKFKMHLEDYPPQKGCIPRQGTEKADHVDLATLMIDFNGE EKAWAMAVWIFAAINRRDLYEKAKRDEPKWGSDNAR
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (82); Rat (81)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — NLRP3

Entrez GeneID	114548
GeneBank Accession#	NM_004895
Protein Accession#	NP_004886
Gene Name	NLRP3
Gene Alias	AGTAVPRL, AII, AII/AVP, AVP, C1orf7, CIAS1, CLR1.1, FCAS, FCU, FLJ95925, MWS, NALP3, PYPAF1
Gene Description	NLR family, pyrin domain containing 3
Omim ID	120100 191900 606416 607115
Gene Ontology	Hyperlink
Gene Summary	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- κ B 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]
Other Designations	AII/AVP receptor-like NACHT domain-, leucine-rich repeat-, and PYD-containing protein 3 NACHT, LRR and PYD containing protein 3 OTTHUMP00000038408 OTTHUMP00000038409 OTTHUMP00000038410 PYRIN-containing APAF1-like protein 1 angiotensin/vasopressin receptor

Disease

- [Amyloidosis](#)
- [Anaphylaxis](#)
- [Arthritis](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Autoimmune Diseases](#)
- [Behcet Syndrome](#)
- [Candidiasis](#)
- [Cardiovascular Diseases](#)
- [Chlamydia Infections](#)
- [Colitis](#)
- [Crohn Disease](#)
- [Dermatitis](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Drug Hypersensitivity](#)
- [Edema](#)
- [Fallopian Tube Diseases](#)
- [Familial Mediterranean fever](#)
- [Food Hypersensitivity](#)
- [Genetic Predisposition to Disease](#)
- [Hematologic Neoplasms](#)
- [HIV Infections](#)
- [Hypertension](#)
- [Infertility](#)

- [Inflammation](#)
- [Inflammatory Bowel Diseases](#)
- [Mycoplasma Infections](#)
- [NARP](#)
- [Recurrence](#)
- [Syndrome](#)
- [Vulvar Vestibulitis](#)