

Recombinant Mouse NLRP3 Protein, His tagged

Cat. No. NLRP3-10722ME Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse NLRP3 Protein with His-tag was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	Enables DNA-binding transcription factor binding activity and sequence-specific DNA binding activity. Involved in several processes, including positive regulation of T-helper cell differentiation; positive regulation of cytokine production; and response to bacterium. Acts upstream of or within several processes, including NLRP3 inflammasome complex assembly; activation of cysteine-type endopeptidase activity involved in apoptotic process; and defense response to virus. Located in cytoplasm and nucleus. Part of NLRP3 inflammasome complex. Is expressed in central nervous system and retina. Used to study CINCA Syndrome; familial cold autoinflammatory syndrome 1; and non-alcoholic fatty liver disease. Human ortholog(s) of this gene implicated in CINCA Syndrome; Muckle-Wells syndrome; autosomal dominant nonsyndromic deafness 34; familial cold autoinflammatory syndrome 1; and urticaria. Orthologous to human NLRP3 (NLR family pyrin domain containing 3).
Molecular Mass	The protein has a calculated MW of 36.17 kDa.
AA Sequence	MTSVRCKLAQYLEDLEDVDLKKFKMHLEDYPPEKGCIPVPRGQMEKADHLDLATLMI DFNGEEKAWAMAVWIFAAINRRDLWEKAKKDQPEWNDTCTSHSSMVCQEDSLEEE WMGLLGYLSRISICKKKKKDYCKMYRRHVRSRFYSIKDRNARLGESVDLNSRYTQLQL

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VKEHPSKQEREHELLTIGRTKMRDSPMSSLKLELLFEPEDGHSEPVHTVVFQGAAGI
 GKTILARKIMLDWALGKLFKDKFDYLFFIHCREVSLRTPRSLADLIVSCWPDNPPVC
 KILRKPSRILFLMDGFDELQGAFDEH

GENE INFORMATION

Gene Name [Nlrp3 NLR family, pyrin domain containing 3 \[Mus musculus \(house mouse\) \]](#)

Official Symbol [NLRP3](#)

Synonyms

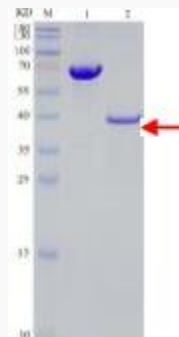
NLRP3; NLR family, pyrin domain containing 3; NACHT, LRR and PYD domains-containing protein 3; cryopyrin; PYRIN-containing APAF1-like protein 1; cold autoinflammatory syndrome 1 homolog; mast cell maturation inducible protein 1; NACHT/LRR/pyrin domain-containing protein 3; cold autoinflammatory syndrome 1 protein homolog; mast cell maturation-associated-inducible protein 1; FCU; MWS; FCAS; Cias1; Mmig1; NALP3; Pypaf1; Ail/AVP; AGTAVPRL; MGC129375

Gene ID [216799](#)

mRNA Refseq [NM_145827](#)

Protein Refseq [NP_665826](#)

SDS-PAGE analysis of purified protein



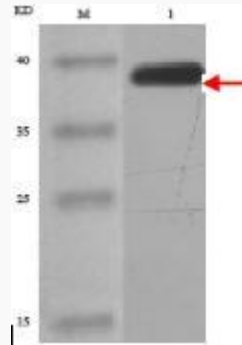
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M: Protein ladder
1: 0.5 mg/mL BSA
2: Purified protein

WB analysis of
purified protein



M: Protein ladder
1: Purified protein

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