Active Recombinant Mouse Nlrp3 protein, His-tagged

Cat. No. Nlrp3-1748M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse Nlrp3 protein(T1W2H6)(671-1033 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Mouse
Source	E.coli
ProteinLength	671-1033 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	NLR Family, Pyrin Domain Containing Protein 3 (NLRP3), also known as NALP3, CIAS1, PYPAF or Cryopyrin, is a cytosolic multiprotein complex composed of the innate immune receptor protein NLRP3, adapter protein ASC, and inflammatory protease caspase-1 that responds to microbial infection, endogenous danger signals, and environmental stimuli. Aberrant activation of the NLRP3 inflammasome is associated with the pathogenesis of various inflammatory diseases, such as diabetes, cancer, and Alzheimer‘s disease. Interleukin 1 Beta (IL1b) can interact with NLRP3, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant mouse NLRP3 and recombinant chicken IL1b. Briefly, NLRP3 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to IL1b-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-NLRP3 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at

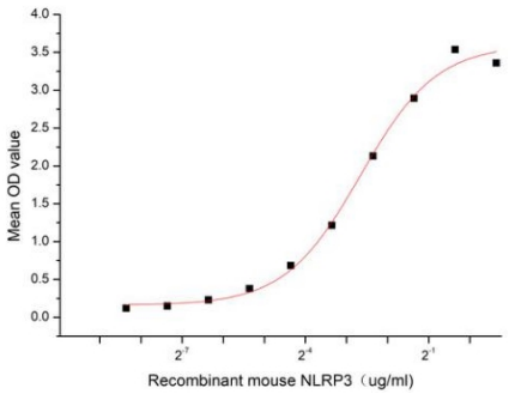
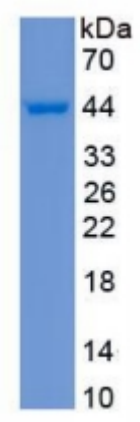
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µ stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant mouse NLRP3 and recombinant chicken IL1b was shown, the EC50 for this effect is 0.16 ug/mL.
Molecular Mass	43.9kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 95%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Nlrp3 NLR family, pyrin domain containing 3 [Mus musculus]
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; AII/AVP; AGTAVPRL; MGC129375;

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Gene ID	216799
mRNA Refseq	NM_145827
Protein Refseq	NP_665826
Activity	
SDS-PAGE	

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