

Product datasheet for **TA336895**

NLRP3 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, ICC/IF, IHC, IP, WB
Recommended Dilution:	Flow Cytometry, Immunoprecipitation, Immunohistochemistry-Frozen, Western Blot: 2 - 5 ug/mL, Immunomicroscopy, Immunohistochemistry-Paraffin: 1:10 - 1:50, Knockdown Validated, Immunocytochemistry/ Immunofluorescence
Reactivity:	Human, Mouse, Rat, Primate
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A portion of amino acids 1-50 of human NALP3 was used as the immunogen
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein A purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	118 kDa
Gene Name:	NLR family, pyrin domain containing 3
Database Link:	NP_004886 Entrez Gene 216799 MouseEntrez Gene 287362 RatEntrez Gene 114548 Human Q96P20



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Background:

NALP3 (NACHT, LRR and PYD domains-containing protein 3, or NLRP3) belongs to the NLRP family and it contains one DAPIN domain, seven LRR (leucine-rich) repeats and one NATCH domain. It 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. The NALP3 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. It is also reported that the NALP3 inflammasome can be activated by pathogen-associated molecular patterns (PAMPs) or endogenous danger-associated molecular patterns (DAMPs). The activation of the NALP3 inflammasome results in proteolytic activation and secretion of cytokines of the interleukin-1 (IL-1) family. 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 multi-system inflammatory disease (NOMID).

Synonyms:

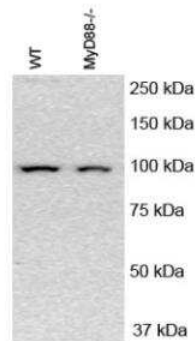
AGTAVPRL; All; AVP; C1orf7; CIAS1; CLR1.1; FCAS; FCAS1; FCU; MWS; NALP3; PYPAF1

Protein Families:

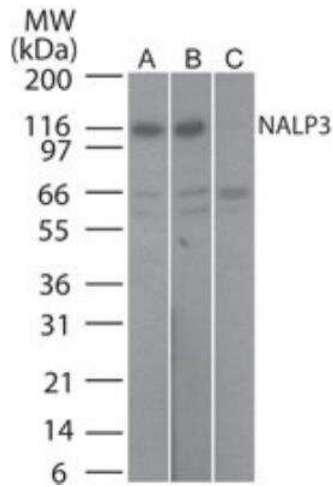
Druggable Genome

Protein Pathways:

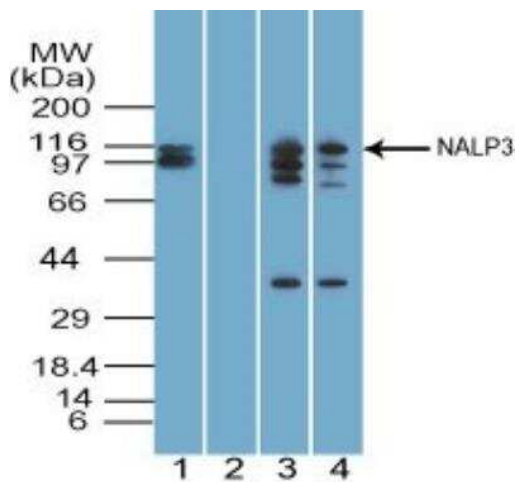
NOD-like receptor signaling pathway

Product images:

Analysis in mouse cell lysate.

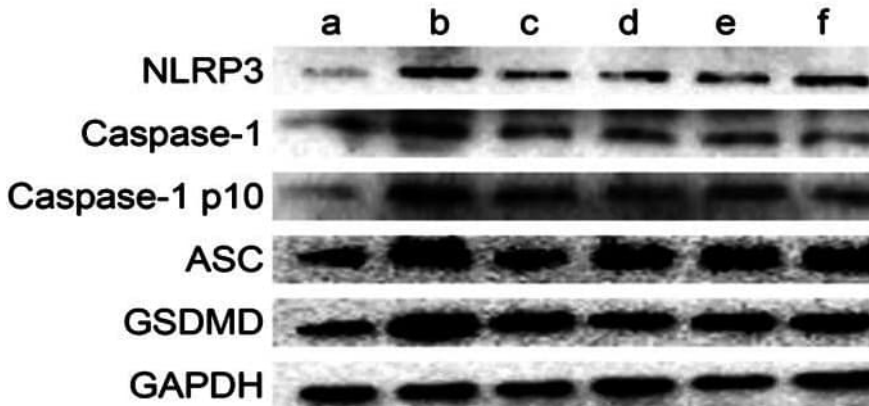


Analysis of NALP3 using NALP3 antibody. Lane A) Human NALP3 transfected cell lysate, B) Mouse NALP3 transfected cell lysate, and C) HEK293 control lysate probed with NALP3 antibody at 3 ug/mL.



Analysis of NALP3 using NALP3 antibody. Human testis lysate in the 1) absence, 2) presence of immunizing peptide, 3) mouse and 4) rat testis probed with NALP3 antibody at 5, 2 and 2 ug/mL respectively. Goat anti-rabbit IgG HRP secondary antibody and PicoTect ECL substrate solution were used for this test.

A



Effect of Taohong Siwu decoction (THSWD) on the characteristic protein of pyroptosis in middle cerebral artery occlusion-reperfusion (MCAO/R) rats. (A) Photographs of western blots, (B) NLRP3, (C) Caspase-1, (D) Caspase-1 p10, (E) ASC, (F) GSDMD. a: Sham, b: Model, c: THSWD (18 g/kg), d: THSWD (9 g/kg), e: THSWD (4.5 g/kg), f: nimodipine. The results were presented as the mean \pm SD (n = 3). Compared with sham group, #p < 0.05, ##p < 0.01. Compared with model group, *p < 0.05, **p < 0.01.