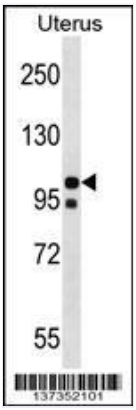
NLRP4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NLRP4, Polyclonal Antibody
Full Product Name	NLRP4, NT (NLRP4, NALP4, PAN2, PYPAF4, RNH2, NACHT, LRR and PYD domains-containing protein 4, Cancer/testis antigen 58, PAAD and NACHT-containing protein 2, PYRIN and NACHT-containing protein 2, PYRIN-containing APAF1-like protein 4, Ribonuclease inhibito
Product Gene Name	anti-NLRP4 antibody
Product Synonym Names	NLRP4; NALP4; PAN2; PYPAF4; RNH2; NACHT; LRR and PYD domains-containing protein 4; Cancer/testis antigen 58; PAAD and NACHT-containing protein 2; PYRIN and NACHT-containing protein 2; PYRIN-containing APAF1-like protein 4; Ribonuclease inhibitor 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	113,415 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (56347944..56393221). Location: 19q13.43
OMIM	609645
3D Structure	ModBase 3D Structure for Q96MN2
Immunogen	NLRP4 antibody is generated from rabbits immunized with a KLH conjugated synthetic between 120-149 amino acids selected from the N-terminal region of human NLRP4.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-NLRP4 antibody	Antibodies; Inflammasomes
Applications Tested/Suitable for anti-NLRP4 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-NLRP4 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.

Related Product Information for anti-NLRP4 antibody	NALPs are cytoplasmic proteins that form a subfamily within the larger CATERPILLER protein family. Most short NALPs, such as NALP4, have an N-terminal pyrin (MEFV; MIM 608107) domain (PYD), followed by a NACHT domain, a NACHT-associated domain (NAD), and a C-terminal leucine-rich repeat (LRR) region. The long NALP, NALP1 (MIM 606636), also has a C-terminal extension containing a function to find domain (FIIND) and a caspase recruitment domain (CARD). NALPs are implicated in the activation of proinflammatory caspases (e.g., CASP1; MIM 147678) via their involvement in multiprotein complexes called inflammasomes (Tschopp et al., 2003 [PubMed 12563287]).
Product References and Citations for anti-NLRP4 antibody	Cummings, J.R., et al. Tissue Antigens 76(1):48-56(2010). Enjuanes, A., et al. Cancer Res. 68(24):10178-10186(2008). Damiano, J.S., et al. Biochem. J. 381 (PT 1), 213-219 (2004): Tschopp, J., et al. Nat. Rev. Mol. Cell Biol. 4(2):95-104(2003). Grenier, J.M., et al. FEBS Lett. 530 (1-3), 73-78 (2002).
Other Notes	Small volumes of anti-NLRP4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NLRP4 purchase	MBS6325776 is an antibody targeting NLRP4. Also known as NLRP4, NT (NLRP4, NALP4, PAN2, PYPAF4, RNH2, NACHT, LRR and PYD domains-containing protein 4, Cancer/testis antigen 58, PAAD and NACHT-containing protein 2, PYRIN and NACHT-containing protein 2, PYRIN-containing APAF1-like protein 4, Ribonuclease inhibito. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-NLRP4 antibody
NLRP4 Antibody (N-term) western blot analysis in Uterus tissue lysates (35ug/lane).This demonstrates the NLRP4 antibody detected the NLRP4 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NLRP4. It may not necessarily be applicable to this product.

NCBI GI #	194018482
NCBI GeneID	147945
NCBI Accession #	NP_604393.2
UniProt Primary Accession #	Q96MN2
UniProt Secondary Accession #	Q86W87; Q96AY6
UniProt Related Accession #	Q96MN2
GenBank Nucleotide #	NM_134444.4
NCBI Official Full Name	NACHT, LRR and PYD domains-containing protein 4
NCBI Official Synonym Full Names	NLR family, pyrin domain containing 4
NCBI Official Symbol	NLRP4
NCBI Official Synonym Symbols	CT58; PAN2; RNH2; NALP4; PYPAF4; CLR19.5; FLJ32126
UniProt Protein Name	NACHT, LRR and PYD domains-containing protein 4

UniProt Synonym Protein Names	Cancer/testis antigen 58; CT58; PAAD and NACHT-containing protein 2; PAN2; PYRIN and NACHT-containing protein 2; PYRIN-containing APAF1-like protein 4; PYPAF4; Ribonuclease inhibitor 2
Protein Family	NACHT, LRR and PYD domains-containing protein
UniProt Gene Name	NLRP4
UniProt Synonym Gene Names	NALP4; PAN2; PYPAF4; RNH2; CT58; PAN2; PYPAF4
UniProt Entry Name	NALP4_HUMAN
NCBI Protein Information	NACHT, LRR and PYD domains-containing protein 4; cancer/testis antigen 58; ribonuclease inhibitor 2; PAAD and NACHT-containing protein 2; PYRIN and NACHT-containing protein 2; PYRIN-containing APAF1-like protein 4; NACHT, LRR and PYD containing protein 4;
UniProt Comments for NLRP4	NALP4: May be involved in inflammation. Acts as a negative regulator of the type I interferon signaling pathway by serving as an adapter to promote DTX4-mediated ubiquitination of activated TBK1, and its subsequent degradation. Belongs to the NLRP family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Cancer Testis Antigen (CTA) Chromosomal Location of Human Ortholog: 19q13.43 Cellular Component: cytosol Molecular Function: ATP binding Biological Process: regulation of interferon type I production; positive regulation of interferon type I production; innate immune response; inflammatory response
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