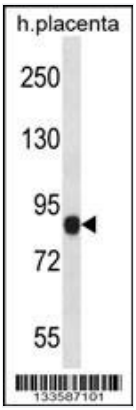
NLRP6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NLRP6, Polyclonal Antibody
Full Product Name	NLRP6, NT (NLRP6, NALP6, PYPAF5, NACHT, LRR and PYD domains-containing protein 6, Angiotensin II/vasopressin receptor, PYRIN-containing APAF1-like protein 5) (Azide free) (HRP)
Product Gene Name	anti-NLRP6 antibody
Product Synonym Names	NLRP6; NALP6; PYPAF5; NACHT; LRR and PYD domains-containing protein 6; Angiotensin II/vasopressin receptor; PYRIN-containing APAF1-like protein 5
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 Horseradish Peroxidase (HRP).
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. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	98,768 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (278570..285304). Location: 11p15
OMIM	609650
3D Structure	ModBase 3D Structure for P59044
Immunogen	NLRP6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 167-197 amino acids from the N-terminal region of human NLRP6.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-NLRP6 antibody	Antibodies; Inflammasomes
Applications Tested/Suitable for anti-NLRP6 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-NLRP6 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-NLRP6 antibody	NALPs are cytoplasmic proteins that form a subfamily within the larger CATERPILLER protein family. Most short NALPs, such as NALP6, 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-NLRP6 antibody	Cummings, J.R., et al. Tissue Antigens 76(1):48-56(2010). Davila, S., et al. Genes Immun. 11(3):232-238(2010). Albrecht, M., et al. FEBS Lett. 538 (1-3), 173-177 (2003): 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-NLRP6 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 NLRP6 purchase	MBS6325800 is an antibody targeting NLRP6. Also known as NLRP6, NT (NLRP6, NALP6, PYPAF5, NACHT, LRR and PYD domains-containing protein 6, Angiotensin II/vasopressin receptor, PYRIN-containing APAF1-like protein 5) (Azide free) (HRP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-NLRP6 antibody
NLRP6Antibody (N-term) western blot analysis in human placenta tissue lysates (35ug/lane).This demonstrates the NLRP6 antibody detected the NLRP6 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NLRP6. It may not necessarily be applicable to this product.

NCBI GI #	21264320
NCBI GeneID	171389
NCBI Accession #	NP_612202.1
UniProt Primary Accession #	P59044
UniProt Secondary Accession #	A8K9F3
UniProt Related Accession #	P59044
GenBank Nucleotide #	NM_138329.1
NCBI Official Full Name	NACHT, LRR and PYD domains-containing protein 6
NCBI Official Synonym Full Names	NLR family, pyrin domain containing 6
NCBI Official Symbol	NLRP6
NCBI Official Synonym Symbols	PAN3; NALP6; PYPAF5; CLR11.4
UniProt Protein Name	NACHT, LRR and PYD domains-containing protein 6
UniProt Synonym Protein Names	Angiotensin II/vasopressin receptor; PYRIN-containing APAF1-like protein 5
Protein Family	NACHT, LRR and PYD domains-containing protein
UniProt Gene Name	NLRP6
UniProt Synonym Gene Names	NALP6; PYPAF5
UniProt Entry Name	NALP6_HUMAN

NCBI Protein Information	NACHT, LRR and PYD domains-containing protein 6; angiotensin II/vasopressin receptor; PYRIN-containing APAF1-like protein 5; NACHT, LRR and PYD containing protein 6; NACHT, leucine rich repeat and PYD containing 6; nucleotide-binding oligomerization domai
UniProt Comments for NLRP6	NLRP6: May contribute to arginine-vasopressin (AVP)-mediated regulation of renal salt-water balance, glucose and lipid metabolism, apoptosis, and/or cell cycle. Binds arginine- vasopressin but not angiotensin II and acts as an arginine- vasopressin V2 receptor. Plays a role in modulating inflammatory responses in the colon to allow recovery from intestinal epithelial damage and limit tumorigenic potential. Protects against the development of colitis by controlling the composition of the gut microbiota by preventing colonization of the colon by harmful, inflammation-inducing bacteria such as Prevotella species. May mediate activation of CASP1 via ASC, promote activation of NF-kappa-B and stimulate cAMP accumulation. Belongs to the NLRP family. Protein type: Receptor, misc. Chromosomal Location of Human Ortholog: 11p15 Cellular Component: nuclear membrane; cytoplasm; plasma membrane Molecular Function: ATP binding; vasopressin receptor activity Biological Process: G-protein coupled receptor protein signaling pathway; wound healing; response to bacterium; negative regulation of MAPKKK cascade; regulation of inflammatory response; negative regulation of immune response; negative regulation of toll-like receptor signaling pathway; regulation of autophagy; negative regulation of I-kappaB kinase/NF-kappaB cascade
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