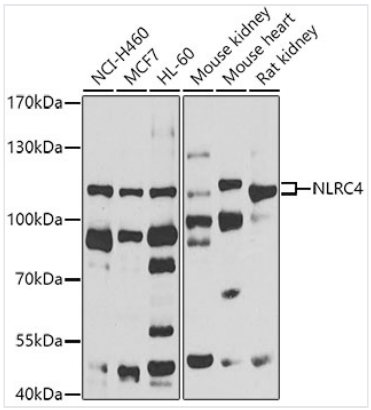
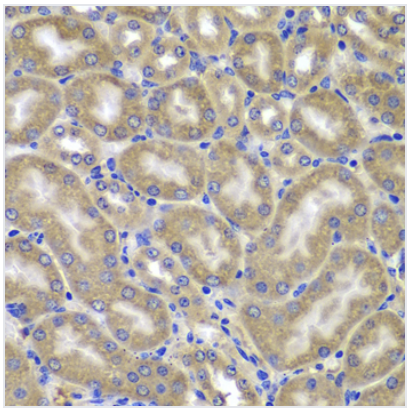
NLRC4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

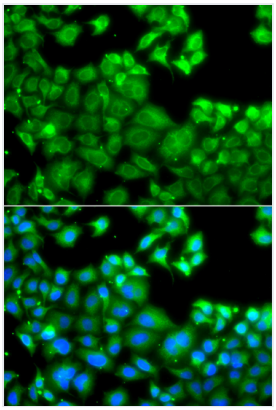
Product Name	NLRC4, Polyclonal Antibody
Full Product Name	NLRC4 Polyclonal Antibody
Product Gene Name	anti-NLRC4 antibody
Product Synonym Names	NLRC4; AIFEC; CARD12; CLAN; CLAN1; CLANA; CLANB; CLANC; CLAND; CLR2.1; FCAS4; IPAF; NLR family CARD domain containing 4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 50% glycerol, pH7.4
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	10,646 Da
OMIM	606831
3D Structure	ModBase 3D Structure for Q9NPP4
Immunogen	Recombinant fusion protein of human NLRC4 (NP_067032.3).
Conjugation	Unconjugated
Product Categories/Family for anti-NLRC4 antibody	Total protein Ab
Applications Tested/Suitable for anti-NLRC4 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-NLRC4 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IF: 1:50-1:200
Related Product Information for anti-NLRC4 antibody	This gene encodes a member of the caspase recruitment domain-containing NLR family. Family members play essential roles in innate immune response to a wide range of pathogenic organisms, tissue damage and other cellular stresses. Mutations in this gene result in autoinflammation with infantile enterocolitis. Alternative splicing results in multiple transcript variants.
Other Notes	Small volumes of anti-NLRC4 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 NLRC4 purchase	MBS9434040 is an antibody targeting NLRC4. Also known as NLRC4 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-NLRC4 antibody
Western blot analysis of extracts of various cell lines, using NLRC4 antibody.



Immunohistochemistry (IHC) of anti-NLRC4 antibody
Immunohistochemistry of paraffin-embedded mouse kidney using NLRC4 antibody.



Immunofluorescence (IF) of anti-NLRC4 antibody
Immunofluorescence analysis of A549 cells using NLRC4 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NLRC4. It may not necessarily be applicable to this product.

NCBI GI #	40788015
NCBI GeneID	58484
NCBI Accession #	NP_067032.3
UniProt Primary Accession #	Q9NPP4
UniProt Secondary Accession #	Q96J81; Q96J82; Q96J83; A8K9F8; B2RBQ3; B3KTF0; D6W580
UniProt Related Accession #	Q9NPP4
GenBank Nucleotide #	NM_021209.4
NCBI Official Full Name	NLR family CARD domain-containing protein 4 isoform a
NCBI Official Synonym Full Names	NLR family, CARD domain containing 4
NCBI Official Symbol	NLRC4
NCBI Official Synonym Symbols	CLAN; IPAF; AIFEC; CLAN1; CLANA; CLANB; CLANC; CLAND; FCAS4; CARD12; CLR2.1
UniProt Protein Name	NLR family CARD domain-containing protein 4
UniProt Synonym Protein Names	CARD, LRR, and NACHT-containing protein; Clan protein; Caspase recruitment domain-containing protein 12; Ice protease-activating factor; Ipaf
Protein Family	NLR family CARD domain-containing protein

UniProt Gene Name	NLRC4
UniProt Synonym Gene Names	CARD12; CLAN; CLAN1; IPAF; Clan protein; Ipaf
UniProt Entry Name	NLRC4_HUMAN
NCBI Protein Information	NLR family CARD domain-containing protein 4; NOD-like receptor C4; ICE-protease activating factor; CARD, LRR, and NACHT-containing protein; caspase recruitment domain family, member 12; caspase recruitment domain-containing protein 12; nucleotide-binding
UniProt Comments for NLRC4	NLRC4: Key component of inflammasomes that indirectly senses specific proteins from pathogenic bacteria and fungi and responds by assembling an inflammasome complex that promotes caspase-1 activation, cytokine production and macrophage pyroptosis. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Apoptosis Chromosomal Location of Human Ortholog: 2p22.3 Cellular Component: spindle microtubule; cytoplasm; intracellular; nucleus; cytosol Molecular Function: identical protein binding; protein binding; protein homodimerization activity; ubiquitin-protein ligase activity; magnesium ion binding; cysteine protease inhibitor activity; ATP binding Biological Process: caspase activation; detection of bacterium; positive regulation of apoptosis; regulation of signal transduction; protein ubiquitination; activation of NF-kappaB transcription factor; regulation of neuron apoptosis; defense response to bacterium; innate immune response; interleukin-1 beta secretion; inflammatory response; activation of innate immune response; protein homooligomerization; negative regulation of apoptosis Disease: Autoinflammation With Infantile Enterocolitis; Familial Cold Autoinflammatory Syndrome 4
Research Articles on NLRC4	**1.** Data show that the disease was caused by a de novo gain-of-function mutation in NLR family CARD domain containing 4 (NLRC4) encoding a p.Val341Ala substitution.
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