

Rabbit anti-Human, mouse NOD1 Polyclonal Antibody | anti-NOD1 antibody

NOD1 Antibody (C-term)

CATALOG # AAA287984	HOST Rabbit	REACTIVITY Human, mouse	APPLICATIONS ELISA, Western Blot
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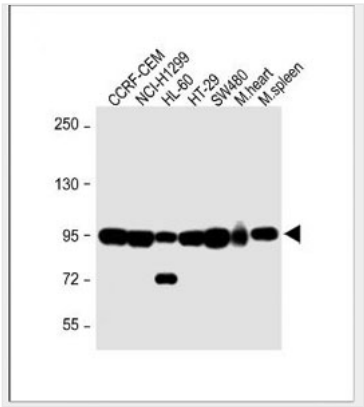
PRODUCT SYNONYMS

NOD1; Polyclonal Antibody; NOD1 Antibody (C-term); Nucleotide-binding oligomerization domain-containing protein 1; Caspase recruitment domain-containing protein 4; CARD4; anti-NOD1 antibody

PRODUCT SPECIFICATIONS

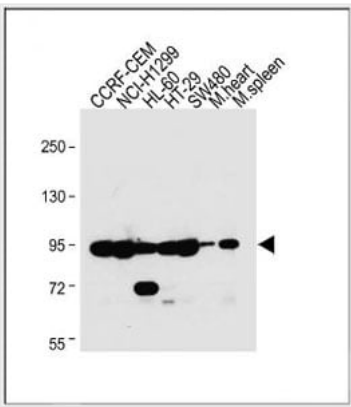
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This NOD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 923-951 amino acids from the C-terminal region of human NOD1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	923-951
Sequence Length	953
Applicable Applications for anti-NOD1 antibody	ELISA, WB (Western Blot)
Function	Enhances caspase-9-mediated apoptosis. Induces NF-kappa- B activity via RIPK2 and IKK-gamma. Confers responsiveness to intracellular bacterial lipopolysaccharides (LPS). Forms an intracellular sensing system along with ARHGEF2 for the detection of microbial effectors during cell invasion by pathogens. Required for RHOA and RIPK2 dependent NF-kappa-B signaling pathway activation upon S.flexneri cell invasion. Involved not only in sensing peptidoglycan (PGN)-derived muropeptides but also in the activation of NF-kappa-B by Shigella effector proteins IpgB2 and OspB. Recruits NLRP10 to the cell membrane following bacterial infection.
Cellular Location	Cytoplasm. Cell membrane. Apical cell membrane. Basolateral cell membrane. Note=Detected in the cytoplasm and at the cell membrane. Following bacterial infection, localizes to bacterial entry sites in the cell membrane. Recruited to the basolateral and apical membranes in polarized epithelial cells
Tissue Location	Highly expressed in adult heart, skeletal muscle, pancreas, spleen and ovary. Also detected in placenta, lung, liver, kidney, thymus, testis, small intestine and colon
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



Application Data

All lanes : Anti-NOD1 Antibody (C-term) at 1:1000 dilution Lane 1: CCRF-CEM whole cell lysate Lane 2: NCI-H1299 whole cell lysate Lane 3: HL-60 whole cell lysate Lane 4: HT-29 whole cell lysate Lane 5: SW480 whole cell lysate Lane 6: Mouse heart lysate Lane 7: Mouse spleen lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 108 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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ADDITIONAL INFORMATION

Related Product Information for anti-NOD1 antibody	This gene encodes a member of the NOD (nucleotide-binding oligomerization domain) family. This member is a cytosolic protein. It contains an N-terminal caspase recruitment domain (CARD), a centrally located nucleotide-binding domain (NBD), and 10 tandem leucine-rich repeats (LRRs) in its C terminus. The CARD is involved in apoptotic signaling, LRRs participate in protein-protein interactions, and mutations in the NBD may affect the process of oligomerization and subsequent function of the LRR domain. This protein is an intracellular pattern-recognition receptor (PRR) that initiates inflammation in response to a subset of bacteria through the detection of bacterial diaminopimelic acid. Multiple alternatively spliced transcript variants differing in the 5' UTR have been described, but the full-length nature of these variants has not been determined.
Product Categories/Family for anti-NOD1 antibody	Cell Biology
References	Hutton, M.L., et al. Infect. Immun. 78(11):4523-4531(2010) Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Lu, W.G., et al. World J. Gastroenterol. 16(34):4348-4356(2010) Enevold, C., et al. Mult. Scler. 16(8):942-949(2010) Ashton, K.A., et al. BMC Cancer 10, 382 (2010) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	5174617
NCBI GeneID	10392
NCBI Accession #	NP_006083.1
NCBI GenBank Nucleotide #	NM_006092.2
UniProt Accession #	Q9Y239; Q549U4; Q8IWF5; B4DTU3
Molecular Weight	107691
NCBI Official Full Name	nucleotide-binding oligomerization domain-containing protein 1

NCBI Official Synonym Full Names	nucleotide-binding oligomerization domain containing 1
NCBI Official Symbol	NOD1
NCBI Official Synonym Symbols	CARD4; NLRC1; CLR7.1
NCBI Protein Information	nucleotide-binding oligomerization domain-containing protein 1
UniProt Protein Name	Nucleotide-binding oligomerization domain-containing protein 1
UniProt Gene Name	NOD1
UniProt Synonym Gene Names	CARD4
UniProt Entry Name	NOD1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/nod1-antibody-western-blot-elisa/287984>