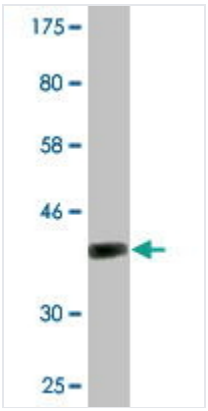
NOD1 Antibody – Mouse Monoclonal

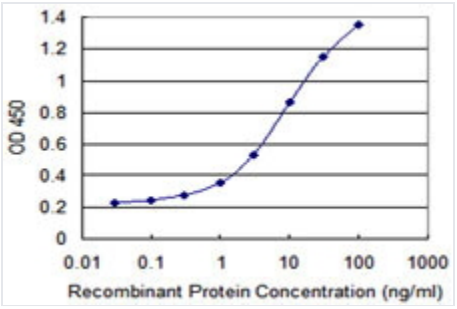
PRODUCT OVERVIEW

Product Name	NOD1, Monoclonal Antibody
Full Product Name	NOD1 (CARD4, Nucleotide-binding Oligomerization Domain-containing Protein 1, Caspase Recruitment Domain-containing Protein 4) APC
Product Gene Name	anti-NOD1 antibody
Clonality	Monoclonal
Isotype	IgG2b, lambda
Clone Number	3F10
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human NOD1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	27,949 Da
Immunogen	Partial recombinant corresponding to aa1-93 from NOD1 (AAH40339) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MEEQGHSEMEIIPSESHPHIQLLKSNRELLVTHIRNTQCLVDNLLKNDYFSAEDAEIVCACPTQPDKVRKILDLVQSKGEEVSEFFLYLLQQL
Conjugate	APC
Product Categories/Family for anti-NOD1 antibody	Antibodies; Apoptosis; Caspase
Applications Tested/Suitable for anti-NOD1 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-NOD1 antibody	Applications are based on unconjugated antibody.
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 differring in the 5' UTR have been described, but the full-length nature of these variants has not been determined.
Other Notes	Small volumes of anti-NOD1 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 NOD1 purchase	MBS6137914 is an antibody targeting NOD1. Also known as NOD1 (CARD4, Nucleotide-binding Oligomerization Domain-containing Protein 1, Caspase Recruitment Domain-containing Protein 4) APC. Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-NOD1 antibody
Western Blot detection against Immunogen (36.34kD).



Testing Data of anti-NOD1 antibody
Detection limit for recombinant GST tagged NOD1 is 0.1ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NOD1. It may not necessarily be applicable to this product.

NCBI GI #	25955660
NCBI GeneID	10392
NCBI Accession #	BC040339
UniProt Secondary Accession #	Q549U4; Q8IWF5; B4DTU3
UniProt Related Accession #	Q9Y239
NCBI Official Full Name	Homo sapiens nucleotide-binding oligomerization domain containing 1, mRNA
NCBI Official Synonym Full Names	nucleotide binding oligomerization domain containing 1
NCBI Official Symbol	NOD1
NCBI Official Synonym Symbols	CARD4; NLRC1; CLR7.1
Protein Family	Nucleotide-binding oligomerization domain-containing protein
NCBI Protein Information	nucleotide-binding oligomerization domain-containing protein 1
NCBI Summary for NOD1	This gene encodes a member of the nucleotide-binding oligomerization domain (NOD)-like receptor (NLR) family of proteins. The encoded protein plays a role in innate immunity by acting as a pattern-recognition receptor (PRR) that binds bacterial peptidoglycans and initiates inflammation. This protein has also been implicated in the immune response to viral and parasitic infection. Major structural features of this protein include 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. Mutations in this gene are associated with asthma, inflammatory bowel disease, Behcet disease and sarcoidosis in human patients. [provided by RefSeq, Aug 2017]
Research Articles on NOD1	**1.** The changes in the nucleotide-binding oligomerization domain-like receptors (NLRs) in human corneas with disease expression may reflect different susceptibility to infectious and non-infectious injuries in corneas with various diseases.
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