

Rabbit anti-Human NOD2 Polyclonal Antibody | anti-NOD2 antibody

Polyclonal Antibody to NOD2 (Card15)

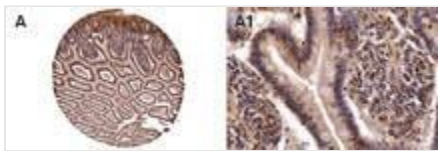
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78350	Rabbit	Human	Immunoprecipitation, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

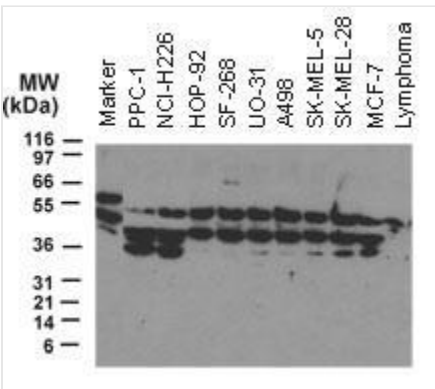
NOD2; Polyclonal Antibody; Polyclonal Antibody to NOD2 (Card15); CARD15; IBD1; Caspase recruitment domain-containing protein 15; Inflammatory bowel disease protein 1; Antibody to NOD2 (Card15); Anti-NOD2 (Card15) Antibody; NOD2 (Card15) Antibody; anti-NOD2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Serum
Form/Format	50 ul sera
Sequence Length	1040
Applicable Applications for anti-NOD2 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Information	A synthetic peptide of human NOD2/CARD15 (amino acids 582-600 LGFLVRAKGVVPGSTAPLE) was used as immunogen for this antibody
Antigen	NOD2 (Card15)
Preparation and Storage	Store the antibody at 4 degree C, stable for 6 months. For long-term storage, store at -20 degree C. Avoid repeated freeze and thaw cycles.



IHC (Immunohistochemistry)
Fig: 2 Formalin-fixed, paraffin-embedded normal human colon stained for NOD2 expression using at 1: 2000. A, tissue core from a colon tissue microarray. A1, high magnification of A. Hematoxylin-eosin counterstain.



WB (Western Blot)
Fig: 1 Western blot analysis of NOD2 using at 1: 2000. 30 ug total protein was loaded per lane. Samples from human tumor cell lines: PPC-1 (prostate carcinoma), NCI-H226 and NCI-H332M (lung carcinoma), SF-268 (glioblastoma), UO-31 and A498 (renal/kidney carcinoma), SK-MEL-5 and SK-MEL-28 (melanoma), and MCF-7 (breast carcinoma). Lymphoma is from a cell line generated from a tumor growing in nude mice following injection of primary human lymphoma cells.

ADDITIONAL INFORMATION

Related Product Information for anti-NOD2 antibody	Innate immunity is present in all animals and is the common mode of defense against microorganisms. It detects microorganisms by specific proteins called pattern-recognition molecules (PRMs) (reviewed in Werts et al. 2006). There is a limited set of PRMs in each animal genome, and it has been postulated that the PRMs were evolutionarily selected to detect conserved components or motifs of microorganisms called pathogen-associated molecular patterns (PAMPs). PAMPs are found in a wide range of microorganisms and recognition of PAMPs by PRMs activates inflammatory signaling pathways, thereby stimulating an immune response. NOD (nucleotide-binding oligomerization domain) proteins are a family of cytosolic proteins which have been implicated in innate recognition of bacteria, the induction of inflammatory responses, and the regulation of caspase activation and apoptosis. NOD2/CARD15 is a PRM that recognizes specific peptidoglycan (PGN) components of bacterial cell walls (reviewed in Strober et al. 2006, and Inohara et al. 2003). NOD2 is expressed in cells that are exposed to PGN under physiological conditions including antigen-presenting cells (APCs) such as macrophages and dendritic cells, and epithelial cells (reviewed in Strober et al. 2006). NOD2 is thought to play a role in the pathogenesis of human gastrointestinal disease. Polymorphisms and mutations in NOD2 are associated with susceptibility to Crohn's disease, a chronic inflammatory bowel disease (Leung et al., 2006). Additionally, polymorphisms in NOD2 have also been found to be associated with Graft-versus-Host Disease (GVHD) (Holler et al., 2004). This association of NOD2 gene polymorphisms with gastrointestinal disease and GVHD suggests that NOD2 gene polymorphisms play a role in pro-inflammatory diseases. This antibody recognizes NOD2, a 1040 amino acid protein. This antibody also recognizes NOD2 alternatively spliced and mutated forms which contain the peptide immunogen sequence including NOD2 short, a 273 amino acid protein.
Product Categories/Family for anti-NOD2 antibody	Antibodies; Apoptosis

NCBI AND UNIPROT INFORMATION

NCBI GI #	20137973
NCBI GeneID	64127
UniProt Accession #	Q9HC29; Q96RH5; Q96RH6; Q96RH8; E2JEQ6
Molecular Weight	22,403 Da
NCBI Official Full Name	Nucleotide-binding oligomerization domain-containing protein 2
NCBI Official Synonym Full Names	nucleotide binding oligomerization domain containing 2
NCBI Official Symbol	NOD2
NCBI Official Synonym Symbols	CD; ACUG; BLAU; IBD1; YAOS; BLAUS; NLRC2; NOD2B; CARD15; CLR16.3; PSORAS1

NCBI Protein Information	nucleotide-binding oligomerization domain-containing protein 2
UniProt Protein Name	Nucleotide-binding oligomerization domain-containing protein 2
UniProt Gene Name	NOD2
UniProt Synonym Gene Names	CARD15; IBD1

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/nod2-antibody-immunoprecipitation-immunohistochemistry-western-blot-elisa/78350>