

Product datasheet for **TA336664**

CARD15 (NOD2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 0.5-2 ug/ml, IF: 1:50 - 1:100
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide made to the C-terminal region of human NOD2 (between residues 1000-1040). [UniProt# Q9HC29]
Formulation:	PBS, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	110 kDa
Gene Name:	nucleotide binding oligomerization domain containing 2
Database Link:	NP_071445 Entrez Gene 64127 Human Q9HC29



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Background:

The NOD2 (nucleotide-binding oligomerization domain containing 2) protein is expressed in the antigen-presenting cells (monocytes and macrophages) and in intestinal Paneth cells, keratinocytes, T cells, NK cells, and CD34+ stem cells. Along with Apaf-1 and CIITA, NOD2 belongs to NLR/NOD leucine-rich repeat containing protein family. NOD2 generally localizes to the cytoplasm from where it translocates to cell membranes, a mechanism suggested as important for its functionality. After interacting with CARD-CARD, NOD2 may bind/activate RIP2/RICK and this active NOD2:RIP2 complex then stimulates MAPK (JNK, ERK, p38), NF- κ B, autophagy and antigen presentation. NOD2 has an ability to sense the presence of MDP (muramyl dipeptide), a breakdown product of peptidoglycan found in bacteria, and after recognition of intracellular bacteria, NOD2 pathway execute directing the secretion of antimicrobial peptides and cytokines/chemokines to induce innate immune clearance of the pathogen as well as to tailor the adaptive immune system to help fight the bacterial infection. Defects in NOD2 are the cause of Blau syndrome (BS), susceptibility to inflammatory bowel disease type 1 (IBD1) and sarcoidosis early-onset (EOS).

Synonyms:

ACUG; BLAU; CARD15; CD; CLR16.3; IBD1; NLRC2; NOD2B; PSORAS1

Note:

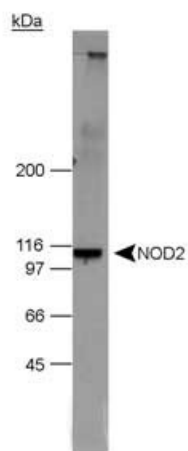
This NOD2 antibody has been tested for Western blot on NOD2 transfected 293T lysates where a band is seen at ~110 kDa. We did not see positive results probing endogenous protein using HT29 lysates.

Protein Families:

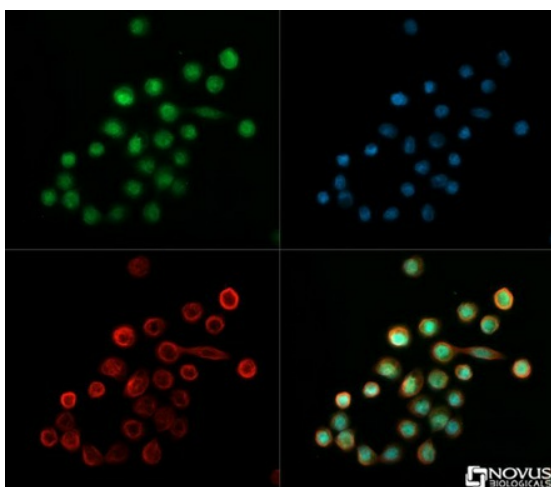
Druggable Genome

Protein Pathways:

NOD-like receptor signaling pathway

Product images:

Western Blot: NOD2 Antibody TA336664 - Detection of NOD2 in 20ug of NOD2 transfected 293T cell lysate using NB 500-253. ECL detection in 15 seconds.



Immunocytochemistry/Immunofluorescence:
NOD2 Antibody TA336664 - NOD2 antibody was tested in HT-29 cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).