

## Anti-NOD2 Antibody

Catalog Number: A00087-1

### About NOD2

Apaf-1 and NOD1 are members of a new family, which are involved in the regulation of apoptosis and immune response. Each of them contains a caspase recruitment domain (CARD) and a nucleotide-binding oligomerization domain (NOD). A third member in this family was recently identified and designated NOD2. NOD2 interacts with RICK via a homophilic CARD-CARD interaction. NOD2 activates NF-kappaB, which is regulated by its carboxy-terminal leucine-rich repeat domain that acts as an intracellular receptor for components of bacteria. The variants of NOD2, either a frameshift or a missense, were associated with Crohn's disease that is a main type of chronic inflammatory bowel disease.

### Overview

Product Name	Anti-NOD2 Antibody
Reactive Species	Human
Description	Boster Bio Anti-NOD2 Antibody (Catalog # A00087-1). Tested in ELISA, WB, ICC, IF applications. This antibody reacts with Human.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	NOD2 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	NOD2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q9HC29

### Technical Details

Immunogen	NOD2 antibody was raised against a synthetic peptide corresponding to 16 amino acids at the amino terminus of human NOD2. The immunogen is located within the first 50 amino acids of NOD2.
Predicted Reactive Species	Bovine, Guinea Pig, Pig, Rabbit, Sheep
Cross Reactivity	At least four isoforms of NOD2 are known to exist; this antibody will only detect the longest isoform. NOD2 has no cross-reaction with NOD1.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	NOD2 Antibody is immunoaffinity chromatography purified IgG.

**Suggested Dilutions**

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

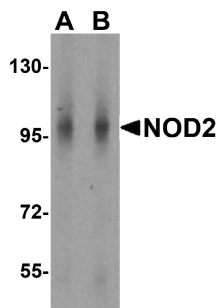
Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

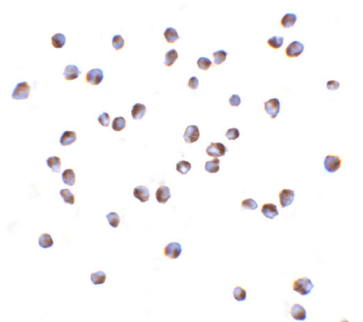
NOD2 antibody can be used for detection of NOD2 by Western blot at 1 to 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 10 ug/mL.

Antibody validated: Western Blot in human samples; Immunocytochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

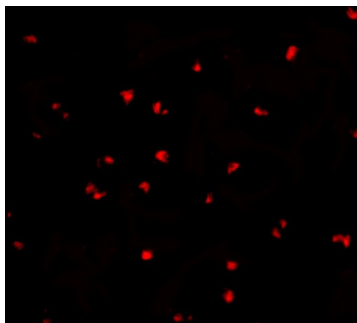
## Anti-NOD2 Antibody (A00087-1) Images



Western blot analysis of NOD2 in human lymph node tissue lysate with NOD2 antibody at (A) 1 and (B) 2 ug/mL.



Immunocytochemistry of NOD2 in Jurkat cells with NOD2 antibody at 5 ug/mL.



Immunofluorescence of NOD2 in Jurkat cells with NOD2 antibody at 20 ug/mL.

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