

## NOD2 Antibody

*NOD2 (NT): Caspase recruitment domain 15, CARD15*

**CATALOG NO.: 2511**

### BACKGROUND:

Apaf-1 and NOD1 are members of a new family (1), 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 (2). NOD2 interacts with RICK via a homophilic CARD-CARD interaction. NOD2 activates NF- $\kappa$ B, 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 (3,4) that is a main type of chronic inflammatory bowel disease.

### SOURCE:

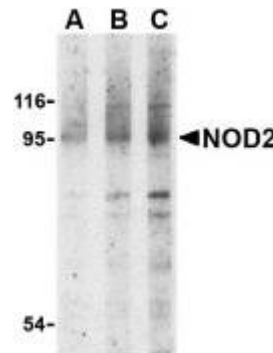
Rabbit NOD2 polyclonal antibody was raised against a synthetic peptide corresponding to 16 amino acids at the amino terminus of human NOD2 (GenBank accession no. Q9HC29).

### APPLICATION:

NOD2 antibody can be used for detection of Noxa by Western blot at 2 to 4  $\mu$ g/ml. (Optimal dilution should be determined by user.) Jurkat cell lysate can be used as a positive control. NOD2 antibody is human specific. It has no cross-reaction with NOD1. **This product is for research use only.**

### STORAGE:

NOD2 antibody is supplied as immunoaffinity chromatography purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of NOD2 in Jurkat cell lysate with NOD2 antibody at (A) 1, (B) 2 and (C) 4  $\mu$ g/ml.

Immunocytochemistry of NOD2 in Jurkat cells with NOD2 antibody at 5  $\mu$ g/ml.



### RELATED PRODUCTS:

Blocking peptide, Catalog No. **2511P**.  
Jurkat Lysate, Catalog No. **1205**.  
NOD2 Antibody (CT), Catalog No. **2513**.  
RICK Antibody (NT), Catalog No. **2075**.  
RICK Antibody (CT), Catalog No. **2083**.

### REFERENCES:

1. Inohara N, Koseki T, del Peso L, et al. Nod1, an Apaf-1-like activator of caspase-9 and nuclear factor-kappaB. *J. Biol. Chem.* 1999; 274:14560-7.
2. Ogura Y, Inohara N, Benito A, et al. Nod2, a Nod1/Apaf-1 family member that is restricted to monocytes and activates NF-kappaB. *J. Biol. Chem.* 2001; 276:4812-8.
3. Hugot JP, Chamaillard M, et al. Association of NOD2 leucine-rich repeat variants with susceptibility to Crohn's disease. *Nature* 2001; 411:599-603.
4. Ogura Y, Bonen DK, Inohara N, et al. A frameshift mutation in NOD2 associated with susceptibility to Crohn's disease. *Nature* 2001; 411:603-6. (07-01D)