

### Product Information

**Size:**

100ul(100ug)

**Reactivity:**

Human, Mouse, Rat

**Source:**

Rabbit

**Isotype:**

IgG

**Applications:**

ELISA, WB, IHC

**Recommended dilutions:**

ELISA:1:2000-1:10000, WB:1:500-1:2000,  
IHC:1:50-1:200

**Protein Background:**

Nod1/CARD4 is a cytosolic protein structurally related to Apaf-1 and plant drug-resistance proteins that has been implicated in apoptosis and inflammatory responses to certain pathogenic bacteria. It contains an amino-terminal caspase recruitment domain (CARD) that is linked to a central nucleotide-binding domain (NBD; also known as a NOD domain) and is followed by carboxy-terminal leucine-rich repeats (LRR). Like Apaf-1, Nod1 induces apoptosis by a CARD/NBD-dependent activation of caspase-9. The primary function of Nod1 is thought to be as a sensor for certain pathogenic microbes and triggering inflammatory responses including the activation of NF- $\kappa$ B and JNK pathways. The LRR of Nod1 appears to be involved in recognition of microbial components and the CARD domain induces NF- $\kappa$ B activation in cooperation with the CARD containing kinase, RICK/RIP2/CARDIAK. Mutations in Nod1 have been linked increased susceptibility to asthma and inflammatory bowel disease.

**Gene ID:**

NOD1

**Uniprot**

Q9Y239

**Synonyms:**

NOD1; CARD4; CLR7.1; NLRC1

**Immunogen:**

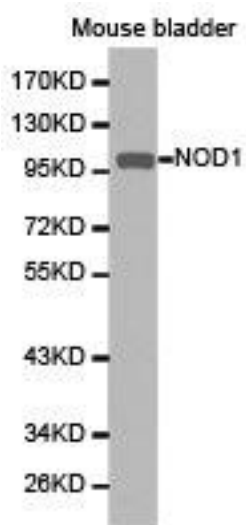
Recombinant protein of human NOD1.

**Storage:**

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

## Product Images

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Western blot analysis of Mouse bladder cell lysate using NOD1 antibody.