Product datasheet Anti-CARD4/NOD1 Antibody Catalog Number: A00495-1

BOSTER BIOLOGICAL TECHNOLOGY Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com

antibody and ELISA

Basic Information	
Product Name	Anti-CARD4/NOD1 Antibody
Gene Name	NOD1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, monkey
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human CARD4/NOD1, which shares 88.2% and 93.8% amino acid (aa) sequence identity with mouse and rat CARD4/NOD1, respectively.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	107 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

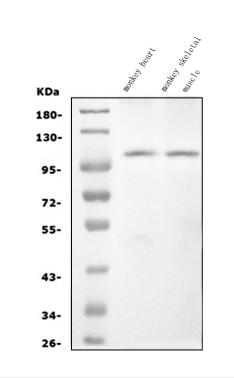
Background Information

Nucleotide-binding oligomerization domain-containing protein 1, also known as CARD4, is a protein receptor that in humans is encoded by the NOD1 gene. NOD1 is a member of NOD-like receptor protein family and is a close relative of NOD2. NOD1 is mapped to 7p14.3. It recognizes bacterial molecules and stimulates an immune reaction. NOD1 protein contains a caspase recruitment domain (CARD). This gene is an intracellular pattern recognition receptor, which is similar in structure to resistant proteins of plants, and mediates innate and acquired immunity by recognizing bacterial molecules containing D-glutamyl-meso-diaminopimelic acid (iE-DAP) moiety. What wore, it has been shown that NOD1 can sense cytosolic microbial products by monitoring the activation state of small Rho GTPases.

antibody and ELISA experts BOSTER BIOLOGICAL TECHNOLOGY Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com

Selected Validation Data



Western blot analysis of CARD4/NOD1 using anti-CARD4/NOD1 antibody (A00495-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: monkey heart tissue lysates, Lane 2: monkey skeletal muscle tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-CARD4/NOD1 antigen affinity purified polyclonal antibody (A00495-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for CARD4/NOD1 at approximately 107 kDa. The expected band size for CARD4/NOD1 is at 108 kDa.