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Basic Information		
Product Name	Anti-CARD4/NOD1 Antibody	
Gene Name	NOD1	
Source	Rabbit	
lsotype	IgG	
Species Reactivity	human, rat	
Tested Application	WB, IHC, ICC	
Contents	500 ug/ml antibody with PBS $_{2}$ 0.02% NaN3 , 1 mg BSA and 50% glycerol.	
Immunogen	E.coli-derived human CARD4 recombinant protein (Position: M1-M160). Human CARD4 shares 82% amino acid (aa) sequence identity with mouse CARD4.	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	107KD	
Dilution Ratios	Western blot(WB): Immunohistochemistry in paraffin section (IHC): Immunocytochemistry: (Boiling the paraffin sections in 10mM citrate buffer,pH6 mins is required for the staining of formalin/paraffin sect must be determined by end user.	1:500-2000 1:50-400 1:50-400 5.0,or PH8.0 EDTA repair liquid for 20 tions.) Optimal working dilutions

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.

Reference

Anti-CARD4/NOD1 Antibody被引用在1文献中。

Product datasheet Anti-CARD4/NOD1 Antibody Catalog Number: PB0283



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Selected Validation Data



Figure 1. Western blot analysis of CARD4 using anti-CARD4 antibody (PB0283). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: A549 Whole Cell Lysate, Lane 2: Rat Cardiac Muscle Tissue Lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CARD4 antigen affinity purified polyclonal antibody (Catalog # PB0283) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for CARD4 at approximately 107KD. The expected band size for CARD4 is at 107KD.



Figure 2. IHC analysis of CARD4 using anti-CARD4 antibody (PB0283).CARD4 was detected in paraffin-embedded section of Human Placenta Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-CARD4 Antibody (PB0283) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.