

Datasheet for ABIN3043890
anti-NOD1 antibody (AA 1-160)



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5 Images

Overview

Quantity:	100 µg
Target:	NOD1
Binding Specificity:	AA 1-160
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NOD1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Nucleotide-binding oligomerization domain-containing protein 1(NOD1) detection. Tested with WB, IHC-P in Human,Rat.
Immunogen:	E.coli-derived human CARD4 recombinant protein (Position: M1-M160). Human CARD4 shares 82% amino acid (aa) sequence identity with mouse CARD4.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Nucleotide-binding oligomerization domain-containing protein 1(NOD1) detection. Tested with WB, IHC-P in Human,Rat.</p> <p>Gene Name: nucleotide-binding oligomerization domain containing 1</p> <p>Protein Name: Nucleotide-binding oligomerization domain-containing protein 1</p>
Purification:	Immunogen affinity purified.

Target Details

Target:	NOD1
Alternative Name:	NOD1 (NOD1 Products)
Background:	<p>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 more, it has been shown that NOD1 can sense cytosolic microbial products by monitoring the activation state of small Rho GTPases.</p> <p>Synonyms: CARD 4 antibody CARD4 antibody Caspase recruitment domain 4 antibody Caspase recruitment domain containing protein 4 antibody Caspase recruitment domain family member 4 antibody Caspase recruitment domain protein 4 antibody Caspase recruitment domain-containing protein 4 antibody CLR 7.1 antibody CLR7.1 antibody NLR family CARD domain containing 1 antibody NLRC 1 antibody NLRC1 antibody NOD 1 antibody Nod1 antibody NOD1 protein antibody NOD1_HUMAN antibody Nucleotide binding oligomerization domain containing 1 antibody Nucleotide binding oligomerization domain leucine rich repeat and CARD domain containing 1 antibody Nucleotide-binding oligomerization domain-containing protein 1 antibody Protein Nod1 antibody</p>
Gene ID:	10392
UniProt:	Q9Y239
Pathways:	Activation of Innate immune Response , Positive Regulation of Endopeptidase Activity , Toll-Like Receptors Cascades , Inflammasome

Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Rat, Predicted Species: Human, The detection limit for CARD4 is approximately 0.2 ng/lane under reducing conditions.</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be</p>
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Application Details

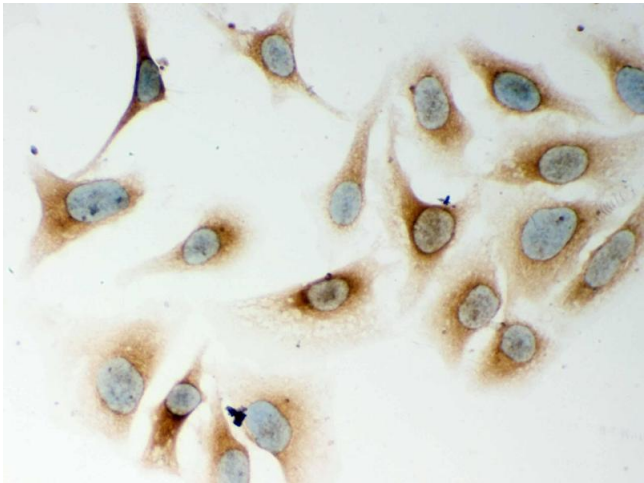
fit for the product based on sequence similarities. Other applications have not been tested.
Optimal dilutions should be determined by end users.

Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

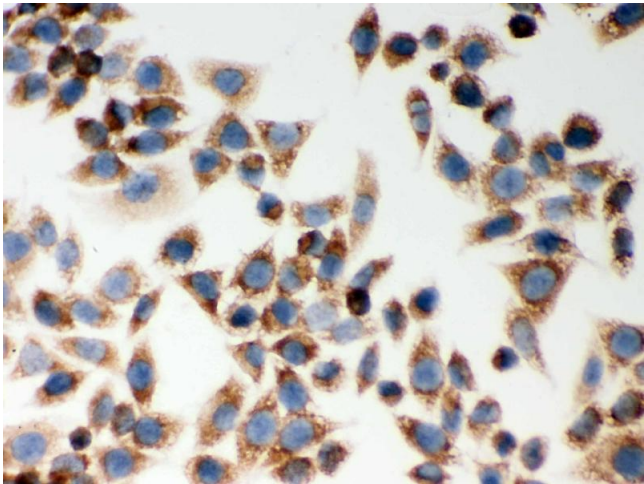
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images



Immunohistochemistry

Image 1. IHC analysis of CARD4 using anti-CARD4 antibody . CARD4 was detected in immunocytochemical section of Hela cell. 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 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 Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

Immunohistochemistry

Image 2. IHC analysis of CARD4 using anti-CARD4 antibody . CARD4 was detected in immunocytochemical section of SMMC-7721 cell. 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 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 Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



Western Blotting

Image 3.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3043890.