



POLYCLONAL ANTIBODY

For research use only. Not for diagnostic use.

Catalog No. THU-A-NOD1

Anti Porcine NOD1

[nucleotide-binding oligomerization domain]

BACKGROUND

A cytosolic surveillance system mediated by the nucleotide-binding oligomerization domain (NOD) proteins plays an important role in recognizing intracellular microbe-associated molecular patterns (MAMPs). It has been found that *meso*-diaminopimelic acid (*meso*-DAP)-containing peptide moieties, such as γ -D-glutamyl-*meso*-DAP (iE-DAP) are recognized by NOD1. Porcine NOD1 is more closely related to the human protein than the mouse counterpart and that it is expressed not only in the cytoplasm but also on the inner side of the plasma membrane in the transfected cells. This antibody is useful for biochemical and immunohistochemical analyzes of porcine NOD1 and for clarifying how the immune system is modulated by low-molecular weight peptidoglycan fragments through NOD1.

Product type	Primary antibody
Immunogen	Amino acids 404-416 of porcine NOD1
Host Species	Rabbit
Fusion Partner	-
Clone Designation	-
Isotype	-
Source	Serum
Purification	Immunogen affinity purified
Buffer	Phosphate Buffered Saline (PBS, pH7.4) with 0.1% NaN ₃ as a preservative*
Concentration	0.84 mg / mL
Volume	50UL
Label	Unlabeled
Specificity	Porcine NOD1
Cross reactivity	Reacts with porcine. Not yet tested in other species.
Storage	Store below -20°C (below -70°C for prolonged storage). Aliquot to avoid cycles of freeze/thaw.

Application notes	• Immunohistochemistry: 1/25-1/500
Recommended dilutions	• Flow cytometry: 1/50-1/500 • Western blotting: 1/25-1/500

Other applications have not been tested.
Optimal dilutions/concentrations should be determined by the end user.

References	1) Tohno M, Shimazu T, Aso H, Uehara A, Takada H, Kawasaki A, Fujimoto Y, Fukase K, Saito T, Kitazawa H., Molecular cloning and functional characterization of porcine nucleotide-binding oligomerization domain-1 (NOD1) recognizing minimum agonists, <i>meso</i> -diaminopimelic acid and <i>meso</i> -lanthionine. <i>Mol Immunol.</i> 2008 Mar;45(6):1807-17. PMID: 17983657
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ANTIBODY CHARACTERIZATION

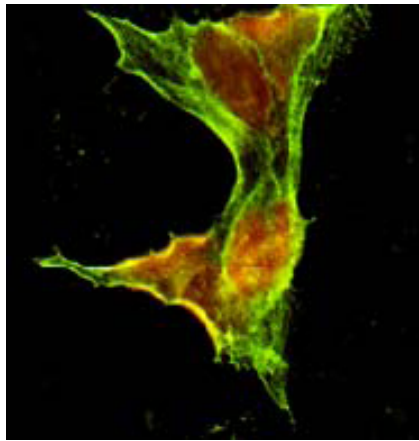


Fig.1 Immunofluorescence staining of NOD1 in **Porcine NOD1-expressing HEK293 cells** with anti Porcine NOD1 antibody. [Green: NOD1, Red: Nuclei] Ref.1)

RELATED PRODUCT:

Product Name	Application	Quantity	Maker	Cat#
Anti porcine TLR2 Polyclonal Antibody	WB / IHC / FCM / IP / ELISA	50 UL	CAC	THU-A-TLR2
Anti porcine TLR9 Polyclonal Antibody	WB / IHC / FCM / IP / ELISA	50 UL	CAC	THU-A-TLR9
Anti porcine NOD1 Polyclonal Antibody	WB / IHC / FCM	50 UL	CAC	THU-A-NOD1
Anti porcine NOD2 Polyclonal Antibody	WB / IHC / FCM	50 UL	CAC	THU-A-NOD2
Anti porcine PGLYRP3 Polyclonal Antibody	WB / IHC / FCM / IP / ELISA	100 UL	COP	COP-080060
Anti porcine PGLYRP4 Polyclonal Antibody	WB / IHC / FCM / IP / ELISA	100 UL	COP	COP-080061

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