

Product datasheet for **TA327025S**

CARD4 (NOD1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB 1:500 - 1:2000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human NOD1
Formulation:	PBS with 0.09% Sodium azide, 50% glycerol, pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	nucleotide binding oligomerization domain containing 1
Database Link:	NP_006083 Entrez Gene 107607 Mouse Entrez Gene 500133 Rat Entrez Gene 10392 Human Q9Y239



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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- κ B and JNK pathways. The LRR of Nod1 appears to be involved in recognition of microbial components and the CARD domain induces NF- κ 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.

Synonyms:

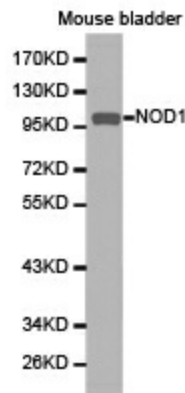
CARD4; CLR7.1; NLRC1

Protein Families:

Druggable Genome

Protein Pathways:

Epithelial cell signaling in Helicobacter pylori infection, NOD-like receptor signaling pathway

Product images:

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