



Rabbit Anti-Human NOD1 (aa N26-F953) polyclonal Antibody (CABT-JX105)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Human NOD1
Target	Human NOD1 (aa N26-F953)
Immunogen	A recombinant human protein (amino acids N26-F953) was used as the immunogen for the NOD1 Antibody
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Antigen affinity purified
Conjugate	Unconjugated
Applications	WB, IHC-P, FC Western blot: 0.5-1µg/ml; Immunohistochemistry (FFPE): 1-2µg/ml; Flow cytometry: 1-3µg/million cells Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
Reconstitution	Sterile DI water
Format	Lyophilized
Concentration	0.5mg/ml if reconstituted with 0.2ml sterile DI water
Size	100 µg

Buffer	Lyophilized from 1X PBS with 2.5% BSA, 0.025% Sodium Azide
Preservative	0.025% Sodium Azide
Storage	Stored at 4°C for one month. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.
Ship	Wet ice

BACKGROUND

Introduction	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.
Keywords	NOD1; nucleotide-binding oligomerization domain containing 1; CARD4; NLRC1; CLR7.1; nucleotide-binding oligomerization domain-containing protein 1; NLR family, CARD domain containing 1; caspase recruitment domain family, member 4; caspase recruitment domaincontaining protein 4; nucleotide-binding oligomerization domain, leucine rich repeat and CARD domain containing 1

GENE INFORMATION

Synonyms	NOD1; nucleotide-binding oligomerization domain containing 1; CARD4; NLRC1; CLR7.1; nucleotide-binding oligomerization domain-containing protein 1; NLR family, CARD domain containing 1; caspase recruitment domain family, member 4; caspase recruitment domaincontaining protein 4; nucleotide-binding oligomerization domain, leucine rich repeat and CARD domain containing 1
UniProt ID	Q9Y239