



Rabbit Anti-CARD4 antibody

SL7085R

Product Name:	CARD4
Chinese Name:	凋亡加强结构域蛋白4抗体
Alias:	CARD 4; CARD4; Caspase recruitment domain 4; Caspase recruitment domain containing protein 4; Caspase recruitment domain family member 4; Caspase recruitment domain protein 4; Caspase recruitment domain-containing protein 4; CLR 7.1; CLR7.1; NLR family CARD domain containing 1; NLRC 1; NLRC1; NOD 1; Nod1; NOD1 protein; NOD1_HUMAN; Nucleotide binding oligomerization domain containing 1; Nucleotide binding oligomerization domain leucine rich repeat and CARD domain containing 1; Nucleotide-binding oligomerization domain-containing protein 1; Protein Nod1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	108kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CARD4:51-150/953
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

Enhances caspase-9-mediated apoptosis. Induces NF-kappa-B activity via RIPK2 and IKK-gamma. Confers responsiveness to intracellular bacterial lipopolysaccharides (LPS). Forms an intracellular sensing system along with ARHGEF2 for the detection of microbial effectors during cell invasion by pathogens. Required for RHOA and RIPK2 dependent NF-kappa-B signaling pathways activation upon S.flexneri cell invasion. Involved not only in sensing peptidoglycan (PGN)-derived muropeptides but also in the activation of NF-kappa-B by Shigella effector proteins IpgB2 and OspB.

Subunit:

Homodimer. Self-associates. Binds to caspase-9 and RIPK2 by CARD-CARD interaction. Interacts with ARHGEF2.

Subcellular Location:

Cytoplasm. Basolateral cell membrane. Recruited to the basolateral membrane compartment in polarized epithelial cells.

Tissue Specificity:

Highly expressed in adult heart, skeletal muscle, pancreas, spleen and ovary. Also detected in placenta, lung, liver, kidney, thymus, testis, small intestine and colon.

Similarity:

Contains 1 CARD domain.
Contains 9 LRR (leucine-rich) repeats.
Contains 1 NACHT domain.

SWISS:

Q9Y239

Gene ID:

10392

Database links:

[Entrez Gene: 10392](#) Human

[Entrez Gene: 107607](#) Mouse

[Entrez Gene: 500133](#) Rat

[Omim: 605980](#) Human

[SwissProt: Q9Y239](#) Human

[SwissProt: Q8BHB0](#) Mouse

[Unigene: 405153](#) Human

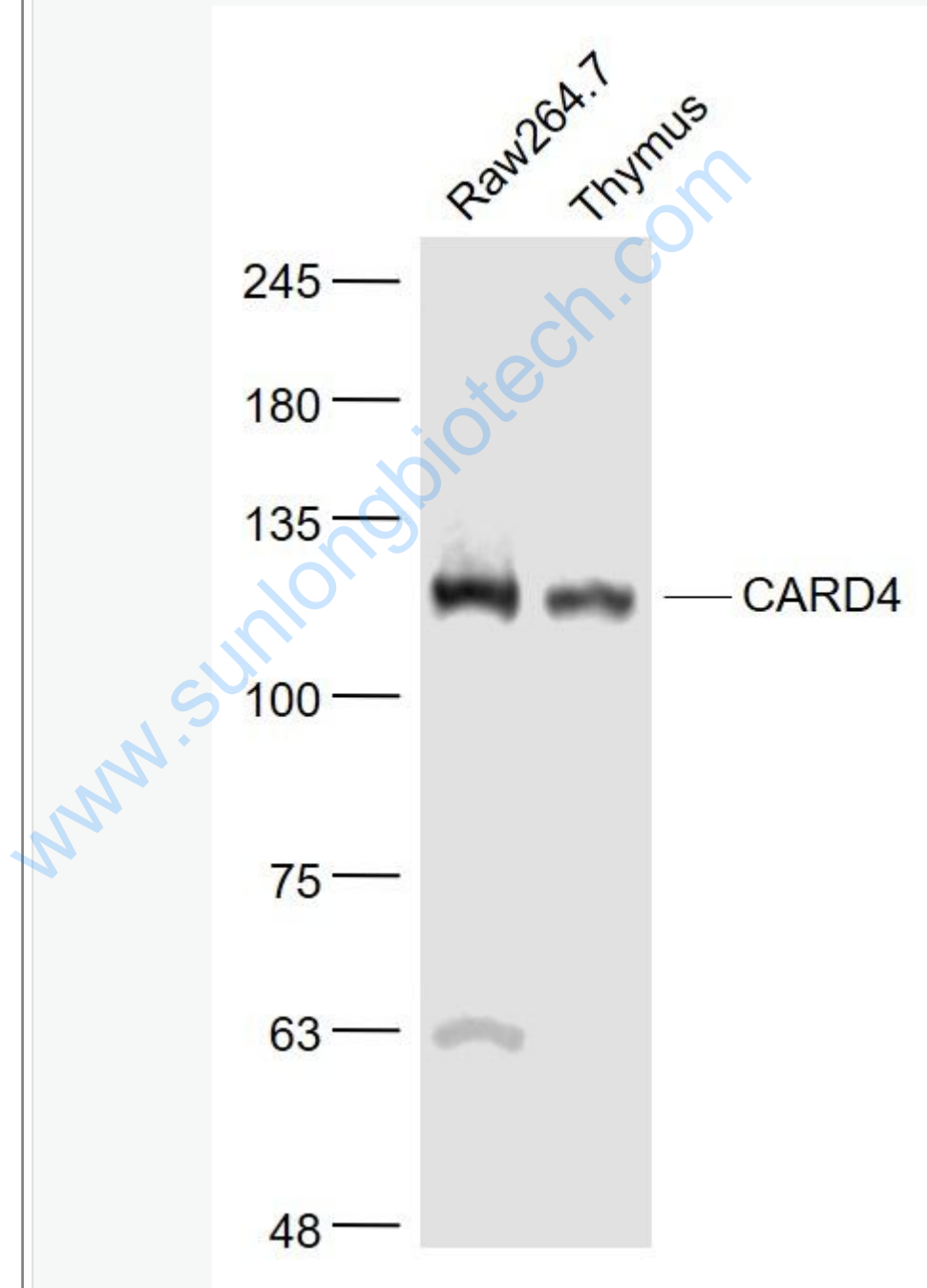
Product Detail:

[Unigene: 28498](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

Raw264.7(Mouse) Cell Lysate at 30 ug

Thymus (Mouse) Lysate at 40 ug

Primary: Anti- CARD4 (SL7085R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 108 kD

Observed band size: 108 kD

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