SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-C9orf95/NRK antibody

Catalog Number: SL15349R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	C9orf95/NRK
Immunogen:	KLH conjugated synthetic peptide derived from human C9orf95: 1-100/199
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Dog, Pig, Sheep)
Predicted MW.:	23kDa
Subcellular Location:	cytoplasmic
Background:	Nicotinamide adenine dinucleotide (NAD+) is an essential cofactor involved in fundamental processes in cell metabolism. NRK1 (Nicotinamide riboside kinase 1), also known as Ribosylnicotinamide kinase 1, is a 199 amino acid enzyme is involved in the synthesis of NAD+ through nicotinamide mononucleotide using nicotinamide riboside as the precursor. Nicotinamide riboside has been idenitifed as a nutrient in milk, suggesting that it is a useful compound for elevating the NAD+ levels in humans. NRK1 also phosphorylates the anti-cancer drugs tiazofurin and 3-deazaguanosine, which converts them into toxic NAD+ analogs and leads to the inhibition of guanine nucleotide biosynthesis. There are two isoforms of NRK1 that are produced as a result of alternative splicing events.

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

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	Function: Catalyzes the phosphorylation of nicotinamide riboside (NR) and nicotinic acid riboside (NaR) to form nicotinamide mononucleotide (NMN) and nicotinic acid mononucleotide (NaMN). The enzyme also phosphorylates the antitumor drugs tiazofurin and 3-deazaguanosine. **Subunit:** Monomer. **Similarity:** Belongs to the uridine kinase family. NRK subfamily. **Database links:** **Entrez Gene:** 54981 Human **Entrez Gene:** 499330 Rat Omim: 608704 Human **SwissProt:** Q9NWW6 Human **SwissProt:** Q6AY91 Rat **Unigene:** 494186 Human **Unigene:** 19716 Rat

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