10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# C9orf95/NRK Rabbit pAb

Catalog # AP97972

## Product Information

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| **Application** | IHC-P, IHC-F, IF, E |
| **Primary Accession** | Q9NWW6 |
| **Other Accession** | Q9NWW6 |
| **Predicted** | Rat, Pig, Human, Mouse, Dog, Sheep |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 23193 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human C9orf95 |
| **Epitope Specificity** | 1-100/199 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SIMILARITY** | Belongs to the uridine kinase family. NRK subfamily. |
| **SUBUNIT** | Monomer. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | 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. |

## Additional Information

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| **Gene ID** | 54981 |
| **Other Names** | C9orf95; NRK1; bA235O14.2; NRK1_HUMAN; NMRK1; NRK 1; NmR-K 1; Nicotinic acid riboside kinase 1; Ribosylnicotinamide kinase 1 (RNK 1); Ribosylnicotinic acid kinase 1; 2.7.1.22; NRK1_RAT; nicotinamide riboside kinase 1; chromosome 9 open reading frame 95; ribosylnicotinamide kinase |
| **Dilution** | IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000 |
| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

## Protein Information

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| **Name** | NMRK1 |
| **Synonyms** | C9orf95, NRK1 |
| **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. |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.