

C9orf95/NRK Rabbit pAb

Catalog # AP97972

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9NWW6
Other Accession	Q9NWW6
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 identified 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

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=1:500 0-10000
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

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'.