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NAD Synthetase Rabbit pAb

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Catalog # AP57343

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q6IA69
Reactivity	Rat, Pig, Mouse, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	79285
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NAD Synthetase
Epitope Specificity	231-330/706
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	In the C-terminal section; belongs to the NAD synthetase family. Contains 1 CN hydrolase domain.
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 a coenzyme in metabolic redox reactions, a precursor for several cell signaling molecules, and a substrate for protein posttranslational modifications. NAD synthetase catalyzes the final step in the biosynthesis of NAD from nicotinic acid adenine dinucleotide (NaAD)

Additional Information

Gene ID	55191
Other Names	Glutamine-dependent NAD(+) synthetase, 6.3.5.1, NAD(+) synthase [glutamine-hydrolyzing], NAD(+) synthetase, NADSYN1
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

Name	NADSYN1

Function	Catalyzes the final step of the nicotinamide adenine dinucleotide (NAD) de novo synthesis pathway, the ATP-dependent amidation of deamido-NAD using L-glutamine as a nitrogen source.

Background

Nicotinamide adenine dinucleotide (NAD) is a coenzyme in metabolic redox reactions, a precursor for several cell signaling molecules, and a substrate for protein posttranslational modifications. NAD synthetase catalyzes the final step in the biosynthesis of NAD from nicotinic acid adenine dinucleotide (NaAD)