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QPRT/QAPRTase Rabbit pAb

Catalog # AP98941

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q15274
Other Accession	Q15274
Reactivity	Rat, Mouse
Predicted	Human, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	30846
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human QPRT/QAPRTase
Epitope Specificity	21-120/297
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
SIMILARITY	Belongs to the nadC/modD family.
SUBUNIT	Hexamer formed by 3 homodimers.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Quinolinate phosphoribosyltransferase (QPRTase) is a major enzyme in the catabolism of quinolinate. Quinolinate is an intermediate in the tryptophan-nicotinamide adenine dinucleotide (NAD) pathway, leading to the production of nicotinic acid, carbon dioxide, and pyrophosphate. Catabolism of quinolinate is vital due to the quinolinate's neurotoxicity. Increased levels of quinolinate have been linked to neurodegenerative symptoms associated with meningitis and AIDS. QAPRTase has a seven-stranded alpha/beta-barrel domain which is similar in structure to the eight-stranded alpha/beta-barrel enzymes. The protein possesses a novel fold in comparison to other members of the PRTase family. This fold comprises a structure combining two domains. The structure is part alpha/beta barrel-like domain, and part alpha/beta N-terminal domain.

Additional Information

Gene ID	23475
Other Names	HEL-S-90n; QPRTase; NADC_BOVIN; QPRT; Quinolinate phosphoribosyltransferase [decarboxylating] (QAPRTase | QPRTase); 2.4.2.19; NADC_HUMAN; quinolinate phosphoribosyltransferase; nicotinate-nucleotide pyrophosphorylase (carboxylating)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

Storage	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	QPRT
Function	Involved in the catabolism of quinolinic acid (QA).

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