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PNPO Rabbit pAb

Catalog # AP97735

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9NVS9
Other Accession	Q9NVS9
Reactivity	Rat
Predicted	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	29988
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PNPO
Epitope Specificity	41-140/261
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 pyridoxamine 5'-phosphate oxidase family.
SUBUNIT	Homodimer.
DISEASE	Defects in PNPO are the cause of pyridoxine-5'-phosphate oxidase deficiency (PNPO deficiency) [MIM:610090]; also known as PNPO-related neonatal epileptic encephalopathy. The main feature of neonatal epileptic encephalopathy is the onset within hours of birth of a severe seizure disorder that does not respond to anticonvulsant drugs and can be fatal. Seizures can cease with the administration of PLP, being resistant to treatment with pyridoxine.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Catalyzes the oxidation of either pyridoxine 5'-phosphate (PNP) or pyridoxamine 5'-phosphate (PMP) into pyridoxal 5'-phosphate (PLP).

Additional Information

Gene ID	55163
Other Names	HEL-S-302; PDXPO; PNPO_HUMAN; PNPO; Pyridoxamine-phosphate oxidase; 1.4.3.5; PNPO_MOUSE; PNPO_RAT; pyridoxamine 5'-phosphate oxidase; pyridoxine 5'-phosphate oxidase; pyridoxal 5'-phosphate synthase
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	PNPO
Function	Catalyzes the oxidation of either pyridoxine 5'-phosphate (PNP) or pyridoxamine 5'-phosphate (PMP) into pyridoxal 5'-phosphate (PLP).
Tissue Location	Ubiquitous. Expressed in liver, brain, lung, prostate and stomach (at protein level).

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