

Mouse Anti-Human PNPO Monoclonal Antibody

Cat. No. CAB-11473MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Anti-human PNPO mAb, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human PNPO protein.
Species	Human
Source	Mouse
Antigen Description	PNPO (pyridoxamine 5"-phosphate oxidase) is a 261 amino acid protein belonging to the pyridoxamine 5"-phosphate oxidase family. It is the rate-limiting enzyme in vitamin B6 synthesis. Vitamin B6 (Pyridoxal 5'-phosphate or PLP) is vital for normal cellular function, and some cancer cells have notable differences in vitamin B6 metabolism compared to their normal counterparts. Vitamin B6 is a required co-factor for enzymes involved in both homocysteine metabolism and synthesis of neurotransmitters such as catecholamine.
Immunogen	Recombinant human PNPO (57-261aa) purified from E. coli.
Isotype	Mouse IgG1 heavy chain and κ light chain.
Application	ELISA; WB
Clone	BU3D8
Description	PNPO is an enzyme that in humans is encoded by the PNPO gene.

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Concentration	1 mg/ml
Form	Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.1% Sodium Azide.
Usage	The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:500-1:5000. Recommended starting dilution is 1:1000.
Storage	Can be stored at +4°C. For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	PNPO pyridoxamine 5"-phosphate oxidase [Homo sapiens]
Official Symbol	PNPO
Synonyms	PNPO; pyridoxamine 5"-phosphate oxidase; PDXPO; pyridoxine-5"-phosphate oxidase; pyridoxamine-phosphate oxidase; pyridoxal 5"-phosphate synthase; EC 1.4.3.5; pyridoxine 5"-phosphate oxidase; FLJ10535; Pyridoxal 5 phosphate synthase; pyridoxamine 5 phosphate oxidase; Pyridoxamine phosphate oxidase
Gene ID	55163
mRNA Refseq	NM_018129
Protein Refseq	NP_060599
MIM	603287

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UniProt ID	Q9NVS9
Chromosome Location	17q21.32
Pathway	Metabolic pathways; Metabolism;Metabolism of vitamins and cofactors; Metabolism of water-soluble vitaminsand cofactors; Selenium Pathway; Vitamin B6 metabolism; Vitamins B6activation to pyridoxal phosphate; pyridoxal 5"-phosphate salvage pathway
Function	FMN binding; oxidoreductase activity;pyridoxamine-phosphate oxidase activity

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