

## Product datasheet for **AM39001PU-S**

### PNPO Mouse Monoclonal Antibody [Clone ID: AT2C7]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	AT2C7
Applications:	ELISA, WB
Recommended Dilution:	ELISA. Western blot (1:500 - 1:5000).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human PNPO (57-261aa) purified from E. coli
Specificity:	Teh antibody recognizes human PNPO. Other species not tested.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-G affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	pyridoxamine 5'-phosphate oxidase
Database Link:	<a href="#">Entrez Gene 55163 Human Q9NVS9</a>



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**Background:**

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-prime-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.

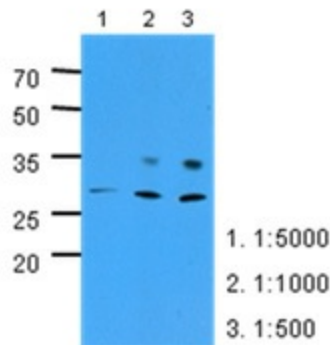
**Synonyms:**

FLJ10535; PDXPO

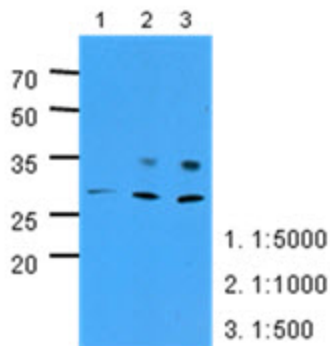
**Protein Pathways:**

Metabolic pathways, Vitamin B6 metabolism

**Product images:**



The extracts of HepG2 (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PNPO (1:500 ~ 1:5000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Western blot analysis: The extracts of HepG2 (40 ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PNPO (1:500 ~ 1:5000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.