Product information

Monoclonal anti-human PNPO antibody (clone AT2C7)

Mouse $IgG_{1,\kappa}$

Cat. No. IBATGA0213

Immunogen: Recombinant human PNPO (57-261aa) purified from *E. coli*

NCBI Accession No.: NP_060599

Isotype: Mouse IgG_1 heavy chain and κ light chain

Clone: Anti-human PNPO mAb, clone AT2C7, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human PNPO protein.

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-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.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol.

Storage: Can be stored at +4°C. For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.

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

Manufactured for:
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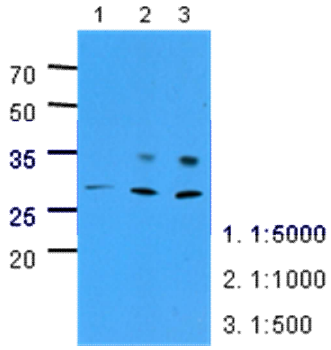
Application: ELISA, WB

Western blot analysis

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.



General references: Ngo EO, *et al.* (Jun 1998). *Biochemistry* **37** (21): 7741–8.

Mills PB, Surtees RA, *et al.* (2005). *Hum. Mol. Genet.* **14** (8): 1077–86.

Kang JH, *et al.* (Jun 2004). *Eur J Biochem* **271** (12): 2452–61.

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