

Product datasheet for **TA503249**

PNPO Mouse Monoclonal Antibody [Clone ID: OTI3B3]

Product data:

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|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type: | Primary Antibodies |
| Clone Name: | OTI3B3 |
| Applications: | IF, WB |
| Recommended Dilution: | WB 1:500~2000, IF 1:100 |
| Reactivity: | Human, Dog, Rat, Monkey, Mouse |
| Host: | Mouse |
| Isotype: | IgG2a |
| Clonality: | Monoclonal |
| Immunogen: | Full length human recombinant protein of human PNPO(NP_060599) produced in HEK293T cell. |
| Formulation: | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide. |
| Concentration: | 0.57 mg/ml |
| Purification: | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 29.8 kDa |
| Gene Name: | pyridoxamine 5'-phosphate oxidase |
| Database Link: | NP_060599 Entrez Gene 64533 Rat Entrez Gene 103711 Mouse Entrez Gene 480540 Dog Entrez Gene 694949 Monkey Entrez Gene 55163 Human Q9NVS9 |
| Background: | The enzyme encoded by this gene catalyzes the terminal, rate-limiting step in the synthesis of pyridoxal 5'-phosphate, also known as vitamin B6. Vitamin B6 is a required co-factor for enzymes involved in both homocysteine metabolism and synthesis of neurotransmitters such as catecholamine. Mutations in this gene result in pyridoxamine 5'-phosphate oxidase (PNPO) deficiency, a form of neonatal epileptic encephalopathy. [provided by RefSeq, Oct |

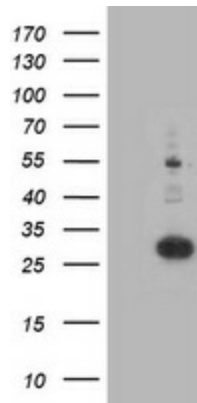


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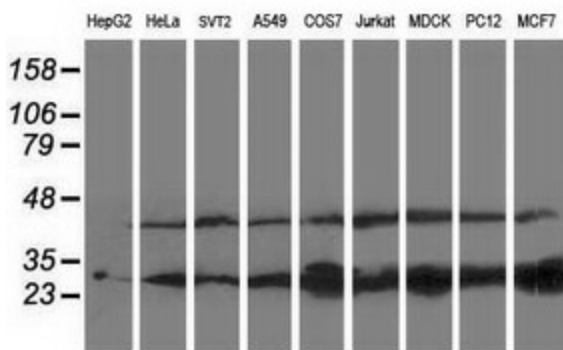
Synonyms: HEL-S-302; PDXPO

Protein Pathways: Metabolic pathways, Vitamin B6 metabolism

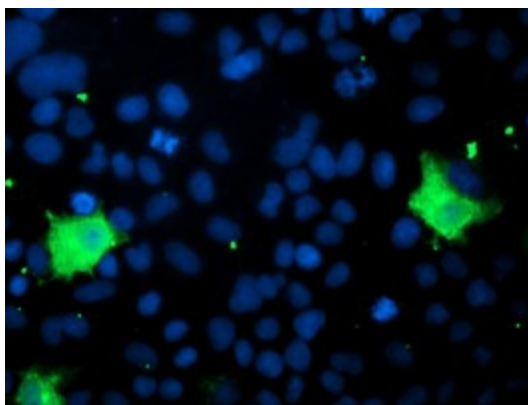
Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PNPO ([RC200133], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PNPO. Positive lysates [LY413282] (100ug) and [LC413282] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-PNPO monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



Anti-PNPO mouse monoclonal antibody (TA503249) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PNPO ([RC200133]).