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Anti-Pyridoxal Kinase Antibody

Catalog # AP95999

Product Information

Application	WB, IHC, FC, IF/IC
Primary Accession	O00764
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Calculated MW	35102

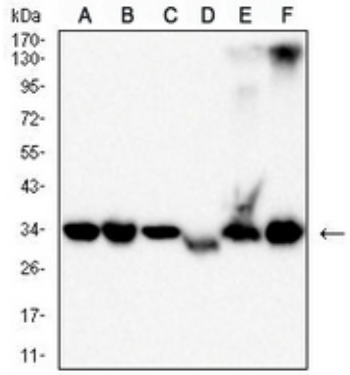
Additional Information

Gene ID	8566
Other Names	C21orf124; C21orf97; PKH; PNK; Pyridoxal kinase; Pyridoxine kinase
Target/Specificity	Recombinant fusion protein of human Pyridoxal Kinase expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200) IF/IC~~N/A
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

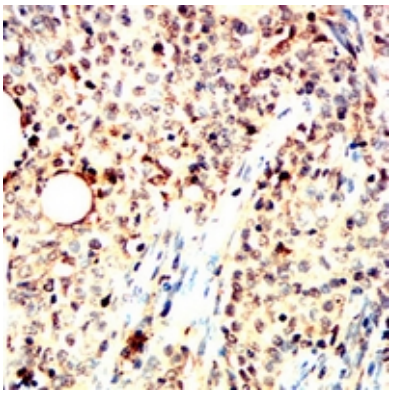
Protein Information

Name	PDXK (HGNC:8819)
Function	Catalyzes the phosphorylation of the dietary vitamin B6 vitamers pyridoxal (PL), pyridoxine (PN) and pyridoxamine (PM) to form pyridoxal 5'-phosphate (PLP), pyridoxine 5'-phosphate (PNP) and pyridoxamine 5'-phosphate (PMP), respectively (Probable) (PubMed:10987144, PubMed:17766369, PubMed:19351586, PubMed:31187503, PubMed:9099727). PLP is the active form of vitamin B6, and acts as a cofactor for over 140 different enzymatic reactions.
Cellular Location	Cytoplasm, cytosol.
Tissue Location	Ubiquitous (PubMed:31187503, PubMed:9099727). Highly expressed in testis (PubMed:9099727)

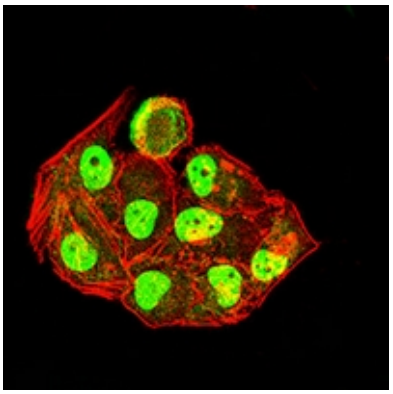
Images



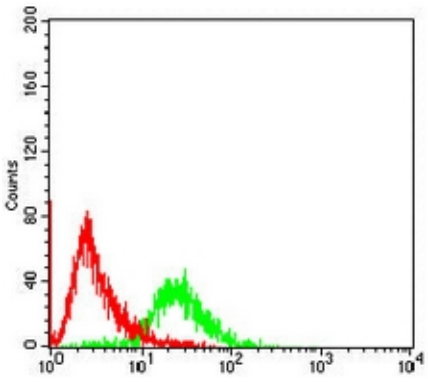
Western blot analysis of Pyridoxal Kinase expression in Hela (A), HepG2 (B), MCF7 (C), HEK293 (D), mouse liver (E), mouse kidney (F) whole cell lysates. (Predicted band size: 35 kD; Observed band size: 34 kD)



Immunohistochemical analysis of Pyridoxal Kinase staining in human cervical cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Pyridoxal Kinase staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Flow cytometric analysis of HEK293 cells using Anti-Pyridoxal Kinase Antibody (green) and negative control (red).

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