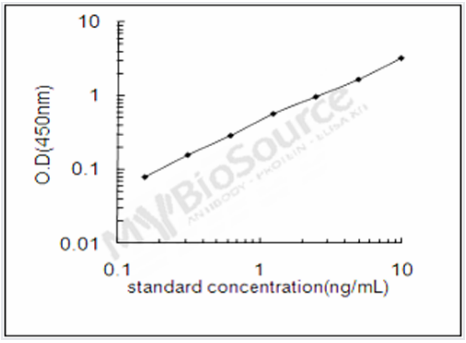
Phosphatidylinositol-5-Phosphate 4-Kinase Type-2 Gamma (PIP4K2C) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Phosphatidylinositol-5-phosphate 4-kinase type-2 gamma (Pip4k2c), ELISA Kit
Full Product Name	Mouse Phosphatidylinositol-5-phosphate 4-kinase type-2 gamma ELISA Kit
Product Gene Name	Pip4k2c elisa kit
Species Reactivity	Mouse
Assay Type	Sandwich
Detection Range	0.156-10 ng/ml
Sensitivity	0.084 ng/mL
Specificity	This assay recognizes recombinant and natural mouse Phosphatidylinositol-5-phosphate 4-kinase type-2 gamma. No significant cross-reactivity or interference was observed.
Preparation and Storage	For long term storage, please store the entire kit at -20 degree C.
Molecular Weight	47,336 Da
3D Structure	ModBase 3D Structure for Q91XU3
Intra-Assay CV	<=6.8%
Inter-Assay CV	<=8.5%
Recovery	99%
Related Product Information for Pip4k2c elisa kit	Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to Phosphatidylinositol-5-phosphate 4-kinase type-2 gamma. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated polyclonal antibody preparation specific for Phosphatidylinositol-5-phosphate 4-kinase type-2 gamma and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB substrate solution is added to each well. Only those wells that contain Phosphatidylinositol-5-phosphate 4-kinase type-2 gamma, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of Phosphatidylinositol-5-phosphate 4-kinase type-2 gamma in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of Pip4k2c elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Pip4k2c purchase	MBS288288 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Phosphatidylinositol-5-phosphate 4-kinase type-2 gamma (Pip4k2c) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing Pip4k2c. The ELISA analytical biochemical technique of the MBS288288 kit is based on Pip4k2c antibody-Pip4k2c antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect Pip4k2c antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, Pip4k2c. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of Pip4k2c elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Pip4k2c. It may not necessarily be applicable to this product.

NCBI GI #	17298686
NCBI GeneID	117150
NCBI Accession #	NP_473438.1
UniProt Primary Accession #	Q91XU3
UniProt Secondary Accession #	Q3UFU5; Q99K02
UniProt Related Accession #	Q91XU3
GenBank Nucleotide #	NM_054097.3
NCBI Official Full Name	phosphatidylinositol 5-phosphate 4-kinase type-2 gamma
NCBI Official Synonym Full Names	phosphatidylinositol-5-phosphate 4-kinase, type II, gamma
NCBI Official Symbol	Pip4k2c
NCBI Official Synonym Symbols	Pip5k2c
UniProt Protein Name	Phosphatidylinositol 5-phosphate 4-kinase type-2 gamma
UniProt Synonym Protein Names	Phosphatidylinositol 5-phosphate 4-kinase type II gamma; PI(5)P 4-kinase type II gamma; PIP4KII-gamma
Protein Family	Phosphatidylinositol 5-phosphate 4-kinase
UniProt Gene Name	Pip4k2c
UniProt Synonym Gene Names	Pip5k2c; PI(5)P 4-kinase type II gamma; PIP4KII-gamma
UniProt Entry Name	PI42C_MOUSE
NCBI Protein Information	phosphatidylinositol 5-phosphate 4-kinase type-2 gamma
UniProt Comments for Pip4k2c	PIP4K2C: May play an important role in the production of Phosphatidylinositol bisphosphate (PIP2), in the endoplasmic reticulum. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; EC 2.7.1.149; Endoplasmic reticulum; Carbohydrate Metabolism - inositol phosphate; Kinase, lipid Cellular Component: autophagic vacuole; cytoplasm; endoplasmic reticulum; membrane Molecular Function: 1-phosphatidylinositol-4-phosphate 5-kinase activity; 1-phosphatidylinositol-5-phosphate 4-kinase activity; ATP binding; identical protein binding; kinase activity; nucleotide binding; phosphatidylinositol phosphate kinase activity; transferase activity Biological Process: phosphatidylinositol metabolic process; phosphoinositide phosphorylation; phosphorylation; regulation of autophagy

Research Articles on Pip4k2c	**1.** our data suggest that PIP4Kgamma may have a role in neuron function, specifically in the regulation of vesicular transport, in specific regions of the developed brain
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