

Human Phosphatidylinositol 4-Kinase alpha (PI4KA) ELISA Kit | PI4KA elisa kit

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CATALOG #
AAA31489

REACTIVITY
Human

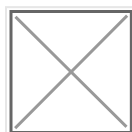
PRODUCT SYNONYMS

Phosphatidylinositol 4-Kinase alpha (PI4KA); Human Phosphatidylinositol 4-Kinase alpha (PI4KA) ELISA Kit; PI4KA; FLJ16556; PI4K-ALPHA; PIK4CA; pi4K230; phosphatidylinositol 4-kinase 230; phosphatidylinositol 4-kinase type 3 alpha; phosphatidylinositol 4-kinase; type1; alpha; PI4KA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Phosphatidylinositol 4-kinase alpha (PI4KA) ELISA Kit has high sensitivity and excellent specificity for detection of Human PI4KA. No significant cross-reactivity or interference between Human PI4KA and analogues was observed.
Sequence Length	2102
Assay Type	Sandwich
Samples	Human serum, cell culture supernates and other biological fluids
Detection Range	7.5 pmol/L - 120 pmol/L
Sensitivity	< 0.5pmol/L
Intra-assay Precision	Four samples of known concentration were tested twenty times on one plate to assess intra-assay precision. The CV (%)?9%.
Inter-assay Precision	Three samples of known concentration were tested in twenty separate assays to assess inter-assay precision. Assays were performed by at least three technicians using two lots of components. The CV (%)?11%.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PI4KA elisa kit	Background: PI4Ka catalyzes the first committed step in the biosynthesis of phosphatidylinositol 4,5-bisphosphate. The mammalian PI 4-kinases have been classified into two types, II and III, based on their molecular mass, and modulation by detergent and adenosine. Two transcript variants encoding different isoforms have been described for this gene. The predicted 854-amino acid protein has a calculated molecular mass of 97 kD. It contains an ankyrin repeat, a lipid kinase unique domain, a pleckstrin-homology domain, and a lipid kinase catalytic domain. PI4K-alpha has high amino acid sequence similarity to the yeast PI 4-kinases STT4 and PIK1; it has less amino acid sequence similarity to the catalytic domains of mammalian and yeast PI 3-kinases and to the yeast TOR family of proteins. Principle of the Assay: Human Phosphatidylinositol 4-kinase alpha (PI4KA) ELISA Kit employs a two-site sandwich ELISA to quantitate PI4KA in samples. An antibody specific for PI4KA has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PI4KA present is bound by the immobilized antibody. After removing any unbound substances, HRP-Conjugated Human PI4KA detection antibody is added to the wells. Following a wash to remove any unbound HRP reagent, a Chromogen solution is added to the wells and color develops in proportion to the amount of PI4KA bound in the initial step. The color development is stopped and the intensity of the color is measured.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	348041302
NCBI GeneID	5297
NCBI Accession #	NP_477352
NCBI GenBank Nucleotide #	NP_477352.3
UniProt Accession #	P42356
NCBI Official Full Name	phosphatidylinositol 4-kinase alpha isoform 1
NCBI Official Synonym Full Names	phosphatidylinositol 4-kinase alpha
NCBI Official Symbol	PI4KA
NCBI Official Synonym Symbols	PIK4CA; PMGYCHA; pi4K230; PI4K-ALPHA
NCBI Protein Information	phosphatidylinositol 4-kinase alpha
UniProt Protein Name	Phosphatidylinositol 4-kinase alpha
UniProt Gene Name	PI4KA
UniProt Synonym Gene Names	PIK4; PIK4CA; PI4-kinase alpha; PI4K-alpha; PtdIns-4-kinase alpha
UniProt Entry Name	PI4KA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.