

Human Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha isoform ELISA Kit | PIK3CA elisa kit

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CATALOG #
AAA192960

REACTIVITY
Human

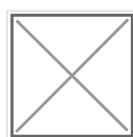
PRODUCT SYNONYMS

Phosphatidylinositol-4; 5-bisphosphate 3-kinase catalytic subunit alpha isoform; Human Phosphatidylinositol-4; 5-bisphosphate 3-kinase catalytic subunit alpha isoform ELISA Kit; PI3-kinase subunit alpha; PI3K-alpha; PI3Kalpha; PtdIns-3-kinase subunit alpha; PIK3CA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay recognizes recombinant and natural human PI3Kalpha. No significant cross-reactivity or interference was observed.
Sequence Length	1068
Assay Type	Sandwich
Detection Range	0.156-10 ng/mL
Sensitivity	0.056ng/ml
Intra-Assay CV	<=4.8%
Inter-Assay CV	<=9.1%
Recovery	90%
Preparation and Storage	For long term storage, please store the entire kit at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PIK3CA elisa kit

Intended Uses: This immunoassay kit allows for the in vitro quantitative determination of human phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha isoform, PI3Kalpha concentrations in serum, Plasma, tissue homogenates and Cell culture supernates and Other biological fluids.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to PI3Kalpha. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated polyclonal antibody preparation specific for PI3Kalpha 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 PI3Kalpha, 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 PI3Kalpha in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	54792082
NCBI GeneID	5290
NCBI Accession #	NP_006209.2
NCBI GenBank Nucleotide #	NM_006218.2
UniProt Accession #	P42336; Q14CW1; Q99762
Molecular Weight	124,284 Da
NCBI Official Full Name	phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform
NCBI Official Synonym Full Names	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha
NCBI Official Symbol	PIK3CA
NCBI Official Synonym Symbols	MCM; CWS5; MCAP; PI3K; CLOVE; MCMTc; p110-alpha
NCBI Protein Information	phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform
UniProt Protein Name	Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform
UniProt Gene Name	PIK3CA
UniProt Synonym Gene Names	PI3-kinase subunit alpha; PI3K-alpha; PI3Kalpha; PtdIns-3-kinase subunit alpha; PtdIns-3-kinase subunit p110-alpha; p110alpha
UniProt Entry Name	PK3CA_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.

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Online datasheet: <https://stage.aaabiotech.com/pik3ca-human-elisa-kits/phosphatidylinositol-45-bisphosphate-3-kinase-catalytic-subunit-alpha-isoform/192960>