

Rat Phosphoinositide-3-Kinase Catalytic Beta Polypeptide (PIK3Cb) ELISA Kit | PIK3Cb elisa kit

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CATALOG # AAA189870	REACTIVITY Rat
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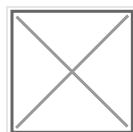
PRODUCT SYNONYMS

Phosphoinositide-3-Kinase Catalytic Beta Polypeptide (PIK3Cb); Rat Phosphoinositide-3-Kinase Catalytic Beta Polypeptide (PIK3Cb) ELISA Kit; PI3K; PI3Kbeta; PIK3C1; p110-BETA; Phosphatidylinositol 4; 5-bisphosphate 3-kinase 110 kDa catalytic subunit beta; PIK3Cb/Phosphoinositide-3-Kinase Catalytic Beta Polypeptide; PIK3Cb elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of PIK3Cb. No significant cross-reactivity or interference between PIK3Cb and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Rat tissue homogenates, cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.057ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PIK3Cb were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level PIK3Cb were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life) Shelf Life: 8 months The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PIK3Cb elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to PIK3Cb. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to PIK3Cb. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain PIK3Cb, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of PIK3Cb in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of PIK3Cb in rat tissue homogenates, cell lysates and other biological fluids.
Product Categories/Family for PIK3Cb elisa kit	Enzyme & Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	16758236
NCBI GeneID	85243
NCBI Accession #	NP_445933.1
NCBI GenBank Nucleotide #	NM_053481.1
UniProt Accession #	Q9Z1L0
Molecular Weight	122,608 Da
NCBI Official Full Name	phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit beta isoform
NCBI Official Synonym Full Names	phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit beta
NCBI Official Symbol	Pik3cb
NCBI Protein Information	phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit beta isoform; PI3K; PI3Kbeta; p110beta; PI3K-beta; ptdIns-3-kinase p110; PI3-kinase subunit beta; PI3-kinase p110 subunit beta; ptdIns-3-kinase subunit beta; ptdIns-3-kinase subunit p110-bet
UniProt Protein Name	Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit beta isoform
UniProt Gene Name	Pik3cb
UniProt Synonym Gene Names	PI3-kinase subunit beta; PI3K-beta; PI3Kbeta; PtdIns-3-kinase subunit beta; PtdIns-3-kinase subunit p110-beta; p110beta
UniProt Entry Name	PK3CB_RAT

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/rat-elisa-kits/phosphoinositide-3-kinase-catalytic-beta-polypeptide-pik3cb/189870>