

Mouse phosphoinositide-3-kinase, catalytic, alpha polypeptide ELISA Kit | PIK3CA elisa kit

Mouse Phosphotylinosital 3 kinase, PI3K ELISA Kit

CATALOG #
AAA80349

REACTIVITY
Mouse

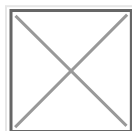
PRODUCT SYNONYMS

phosphoinositide-3-kinase; catalytic; alpha polypeptide; Mouse Phosphotylinosital 3 kinase; PI3K ELISA Kit; MGC142161; MGC142163; PI3K; p110-alpha; PI3-kinase p110 subunit alpha; PtdIns-3-kinase p110; phosphatidylinositol 3-kinase; 110-KD; alpha; alpha pol; PIK3CA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of mouse PI3K. No significant cross-reactivity or interference between mouse PI3K and analogues was observed.
Sequence Length	1068
Samples	Serum, plasma, tissue homogenates
Assay Type	Sandwich
Detection Range	23.5 pg/ml -1500 pg/ml.
Sensitivity	The minimum detectable dose of mouse PI3K is typically less than 5.8 pg/ml. The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined the mean O.D value of 20 replicates of the zero standard added by their three standard deviations.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PIK3CA elisa kit

Principle of the assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for PI3K has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PI3K present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PI3K is added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PI3K bound in the initial step. The color development is stopped and the intensity of the color is measured.

NCBI AND UNIPROT INFORMATION

NCBI GI #	254540080
NCBI GeneID	18706
NCBI Accession #	NP_032865.2
NCBI GenBank Nucleotide #	NM_008839.2
UniProt Accession #	P42337; Q0VGQ5
Molecular Weight	124,412 Da
NCBI Official Full Name	phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform
NCBI Official Synonym Full Names	phosphatidylinositol 3-kinase, catalytic, alpha polypeptide
NCBI Official Symbol	Pik3ca
NCBI Official Synonym Symbols	p110; caPI3K; p110alpha; 6330412C24Rik
NCBI Protein Information	phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform; PI3Kalpha; PI3K-alpha; PI3-kinase subunit alpha; ptdIns-3-kinase subunit alpha; ptdIns-3-kinase subunit p110-alpha; serine/threonine protein kinase PIK3CA; phosphoinositide-3-kinase catalytic alpha polypeptide; phosphatidylinositol 4,5-bisphosphate 3-kinase 110 kDa catalytic subunit alpha; phosphatidylinositol-4,5-bisphosphate 3-kinase 110 kDa catalytic subunit alpha; 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_MOUSE

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-mouse-elisa-kits/phosphoinositide-3-kinase-catalytic-alpha-polypeptide/80349>