

Human Phosphoinositide Kinase, FYVE Finger Containing (PIKFYVE) ELISA Kit | PIKFYVE elisa kit

Human Phosphoinositide Kinase, FYVE Finger Containing (PIKFYVE)(Sandwich ELISA) ELISA Kit

CATALOG # AAA152435	REACTIVITY Human
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PRODUCT SYNONYMS

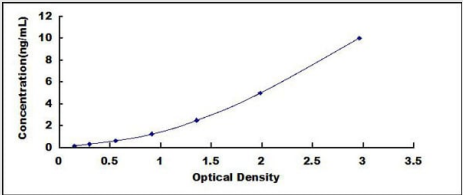
Phosphoinositide Kinase; FYVE Finger Containing (PIKFYVE); Human Phosphoinositide Kinase; FYVE Finger Containing (PIKFYVE)(Sandwich ELISA) ELISA Kit; ELISA Kit for Phosphoinositide Kinase; PIP5K3; CFD; PIP5K; PIKfyve; p235; Phosphatidylinositol-3-Phosphate/Phosphatidylinositol 5-Kinase; Type III; 1-phosphatidylinositol 3-phosphate 5-kinase; PIKFYVE elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Detects protein (regular version) Reactive with Human PIKFYVE/Phosphoinositide Kinase, FYVE Finger Containing This assay has high sensitivity and excellent specificity for detection of Phosphoinositide Kinase, FYVE Finger Containing (PIKFYVE). No significant cross-reactivity or interference between Phosphoinositide Kinase, FYVE Finger Containing (PIKFYVE) and analogues was observed.
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Method	Colormetric
Sensitivity	0.057ng/mL
Assay Time	3h
Sample Size	100uL
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Phosphoinositide Kinase, FYVE Finger Containing (PIKFYVE) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Phosphoinositide Kinase, FYVE Finger Containing (PIKFYVE) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Phosphoinositide Kinase, FYVE Finger Containing (PIKFYVE). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Phosphoinositide Kinase, FYVE Finger Containing (PIKFYVE). 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 Phosphoinositide Kinase, FYVE Finger Containing (PIKFYVE), 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 Phosphoinositide Kinase, FYVE Finger Containing (PIKFYVE) in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100uL standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100uL prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100uL prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 90uL Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 50uL Stop Solution. Read at 450nm immediately.
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life) Shelf-life: one year 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)
Typical Standard Curve for PIKFYVE ELISA (Sandwich

NCBI AND UNIPROT INFORMATION

NCBI GI #	295789162
NCBI GeneID	200576
NCBI Accession #	NP_001171471.1
NCBI GenBank Nucleotide #	NM_001178000.1
UniProt Accession #	Q9Y2I7; Q08AR7; Q08AR8; Q53ST3; Q53T36; Q8N5H0; Q8NB67
Molecular Weight	237,136 Da
NCBI Official Full Name	1-phosphatidylinositol 3-phosphate 5-kinase isoform 4
NCBI Official Synonym Full Names	phosphoinositide kinase, FYVE finger containing
NCBI Official Symbol	PIKFYVE
NCBI Official Synonym Symbols	CFD; FAB1; PIP5K; PIP5K3; ZFYVE29
NCBI Protein Information	1-phosphatidylinositol 3-phosphate 5-kinase; PIPkin-III; type III PIP kinase; zinc finger, FYVE domain containing 29; 1-phosphatidylinositol-3-phosphate 5-kinase; phosphatidylinositol 3-phosphate 5-kinase type III; phosphatidylinositol-3-phosphate/phospha
UniProt Protein Name	1-phosphatidylinositol 3-phosphate 5-kinase
UniProt Gene Name	PIKFYVE
UniProt Synonym Gene Names	KIAA0981; PIP5K3; Phosphatidylinositol 3-phosphate 5-kinase; PIPkin-III
UniProt Entry Name	FYV1_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.

