

## Datasheet for ABIN5657781 PIK3CB ELISA Kit



Overview

| Quantity:                | 96 tests               |
|--------------------------|------------------------|
| Target:                  | PIK3CB                 |
| Reactivity:              | Human                  |
| Method Type:             | Sandwich ELISA         |
| Detection Range:         | 0.156 ng/mL - 10 ng/mL |
| Minimum Detection Limit: | 0.156 ng/mL            |
| Application:             | ELISA                  |

## Product Details

| Sample Type:       | Tissue Homogenate   |
|--------------------|---|
| Analytical Method: | Quantitative  |
| Detection Method:  | Colorimetric  |
| Specificity:       | This assay has high sensitivity and excellent specificity for detection of Phosphoinositide-3-K<br>inase Catalytic Beta Polypeptide (PIK3Cb). No significant cross-reactivity or interference<br>between Phosphoinositide-3-Kinase Catalytic Beta Polypeptide (PIK3Cb) and analogues was<br>observed. |
| Sensitivity:       | 0.059 ng/mL   |

## Target Details

| Target:           | PIK3CB   |
|-------------------|--|
| Alternative Name: | Phosphoinositide-3-Kinase Catalytic Beta Polypeptide (PIK3CB Products) |

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| Background:         | Gene Name: Phosphoinositide-3-Kinase Catalytic Beta Polypeptide   |
|---------------------|---|
|                     | Gene Aliases: PI3K, PI3Kbeta, PIK3C1, p110-BETA, Phosphatidylinositol 4,5-bisphosphate 3-               |
|                     | kinase 110 kDa catalytic subunit beta   |
| JniProt:            | P42338  |
| Application Details |   |
| Comment:            | 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, ai            |
|                     | 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.                        |
| Assay Time:         | 3 h   |
| Plate:              | Pre-coated  |
| Protocol:           | 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-3-Kinas          |
|                     | Catalytic Beta Polypeptide (PIK3Cb). Standards or samples are then added to the appropriate             |
|                     | microtiter plate wells with a biotin-conjugated antibody specific to Phosphoinositide-3-Kinase          |
|                     | Catalytic Beta Polypeptide (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 Phosphoinositide-3-Kinase Catalytic Beta Polypeptide (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 $\pm$ 10nm. The concentration of            |
|                     | Phosphoinositide-3-Kinase Catalytic Beta Polypeptide (PIK3Cb) in the samples is then                    |
|                     | determined by comparing the O.D. of the samples to the standard curve.                                  |
| Assay Precision:    | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level            |
|                     | Phosphoinositide-3-Kinase Catalytic Beta Polypeptide (PIK3Cb) were tested 20 times on one               |
|                     | plate, respectively   |
|                     | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level             |
|                     | Phosphoinositide-3-Kinase Catalytic Beta Polypeptide (PIK3Cb) were tested on 3 different                |
|                     | plates, 8 replicates in each plate. CV(%) = SD/meanX100   |
|                     | Intra-Assay: CV<10%   |
|                     | Inter-Assay: CV<12%   |

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| Application Details |  |
|---------------------|--|
| Restrictions:       | For Research Use only  |
| Handling            |  |
| Handling Advice:    | The Stop Solution is acidic. Do not allow to contact skin or eyes. Calibrators, controls and specimen samples should be assayed in duplicate. Once the procedure has been started, all steps should be completed without interruption. |
| Storage:            | 4 °C,-20 °C  |
| Storage Comment:    | -20°C. Bring all reagents to room temperature before beginning test. The kit may be stored at 4°C for immediate use within two days upon arrival. Reseal any unused strips with desiccant pack. Minimize freeze/thaw cycles.           |
| Expiry Date:        | 4-8 months   |