

# Human Phosphatidylinositol-4, 5-bisphosphate 3-Kinase Catalytic Subunit beta Isoform (PIK3CB) ELISA Kit | PIK3CB elisa kit

Human Phosphatidylinositol-4, 5-bisphosphate 3-Kinase Catalytic Subunit beta Isoform (PIK3CB) ELISA Kit

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| CATALOG #<br><b>AAA331388</b> | REACTIVITY<br><b>Human</b> |
|-------------------------------|----------------------------|

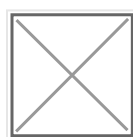
## PRODUCT SYNONYMS

Phosphatidylinositol-4; 5-bisphosphate 3-Kinase Catalytic Subunit beta Isoform (PIK3CB); Human Phosphatidylinositol-4; 5-bisphosphate 3-Kinase Catalytic Subunit beta Isoform (PIK3CB) ELISA Kit; PIK3CB; DKFZp779K1237; MGC133043; P110BETA; PI3K; PI3KBETA; PIK3C1; PI3-kinase p110 subunit beta; PtdIns-3-kinase p110; catalytic phosphatidylinositol 3-kinase beta; PIK3CB elisa kit

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | Human Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta isoform (PIK3CB) ELISA Kit has high sensitivity and excellent specificity for detection of Human PIK3CB. No significant cross-reactivity or interference between Human PIK3CB and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sequence Length         | 582                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type              | Sandwich ELISA (Quantitative)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Samples                 | Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Detection Method        | Colorimetric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Usage Notes             | <ul style="list-style-type: none"> <li>* Do not mix components from different kit lots or use reagents beyond the kit expiration date.</li> <li>* Allow all reagents to warm to room temperature for at least 30 minutes before opening.</li> <li>* Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination.</li> <li>* Unused wells must be kept desiccated at 4 degree C in the sealed bag provided.</li> <li>* Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes.</li> <li>* It is recommended that all samples and standards be assayed in duplicate or triplicate.</li> </ul> |
| Preparation and Storage | Store at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## IMAGES



### Standard Curve (Sample)

Fig.1. Human Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta isoform (PIK3CB) Standard Curve.

ADDITIONAL INFORMATION

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for PIK3CB elisa kit | <p>Description: This Human Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta isoform (PIK3CB) ELISA Kit employs a two-site sandwich ELISA to quantitate PIK3CB in samples. An antibody specific for PIK3CB has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PIK3CB present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PIK3CB is added to the wells. After washing, Streptavidin 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 PIK3CB bound in the initial step. The color development is stopped and the intensity of the color is measured.</p> <p>Background: Phosphoinositide 3-kinases (PI3Ks) phosphorylate the 3-prime OH position of the inositol ring of inositol lipids. They have been implicated as participants in signaling pathways regulating cell growth by virtue of their activation in response to various mitogenic stimuli. PI3Ks are composed of a 110-kD catalytic subunit, such as PIK3CB, and an 85-kD adaptor subunit. The predicted 1,070-amino acid protein, called p110-beta by them, is 42% identical to that of bovine p110. Northern blot analysis revealed that the major 4.8-kb p110-beta transcript was expressed in several human and rodent cell lines, as well as in all mouse tissues tested. Minor larger transcripts were detected in some tissues and cell lines.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 365777411                                                                                                                       |
| NCBI GeneID                      | 5291                                                                                                                            |
| NCBI Accession #                 | NP_001242974.1                                                                                                                  |
| NCBI GenBank Nucleotide #        | NP_001242974.1                                                                                                                  |
| UniProt Accession #              | P42338                                                                                                                          |
| NCBI Official Full Name          | phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit beta isoform isoform 2                                         |
| NCBI Official Synonym Full Names | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta                                                           |
| NCBI Official Symbol             | PIK3CB                                                                                                                          |
| NCBI Official Synonym Symbols    | PI3K; PIK3C1; P110BETA; PI3KBETA                                                                                                |
| NCBI Protein Information         | phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit beta isoform                                                   |
| UniProt Protein Name             | Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit beta isoform                                                   |
| UniProt Gene Name                | PIK3CB                                                                                                                          |
| UniProt Synonym Gene Names       | PIK3C1; PI3-kinase subunit beta; PI3K-beta; PI3Kbeta; PtdIns-3-kinase subunit beta; PtdIns-3-kinase subunit p110-beta; p110beta |
| UniProt Entry Name               | PK3CB_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.