

# Immunotag™ PI 3-kinase p85β Polyclonal Antibody

| Antibody Specification |                                                                                                                                                                                                                                                  |
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| Catalog No.            | ITT3715                                                                                                                                                                                                                                          |
| Product Description    | Immunotag™ PI 3-kinase p85β Polyclonal Antibody                                                                                                                                                                                                  |
| Size                   | 50 µg, 100 µg                                                                                                                                                                                                                                    |
| Conjugation            | HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647                                                                                                                    |
| IMPORTANT NOTE         | This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.                                                                               |
| Target Protein         | PI 3-kinase p8500β                                                                                                                                                                                                                               |
| Clonality              | Polyclonal                                                                                                                                                                                                                                       |
| Storage/Stability      | -20°C/1 year                                                                                                                                                                                                                                     |
| Application            | WB,ELISA                                                                                                                                                                                                                                         |
| Recommended Dilution   | Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.                                                                                                                                                              |
| Concentration          | 1 mg/ml                                                                                                                                                                                                                                          |
| Reactive Species       | Human,Mouse,Rat                                                                                                                                                                                                                                  |
| Host Species           | Rabbit                                                                                                                                                                                                                                           |
| Immunogen              | Synthesized peptide derived from human PI 3-kinase p85β around the non-phosphorylation site of Y464                                                                                                                                              |
| Specificity            | PI 3-kinase p85β Polyclonal Antibody detects endogenous levels of PI 3-kinase p85β protein.                                                                                                                                                      |
| Purification           | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen                                                                                                                             |
| Form                   | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                          |
| Gene Name              | PIK3R2                                                                                                                                                                                                                                           |
| Accession No.          | O00459 O08908 Q63788                                                                                                                                                                                                                             |
| Alternate Names        | PIK3R2; Phosphatidylinositol 3-kinase regulatory subunit beta; PI3-kinase regulatory subunit beta; PI3K regulatory subunit beta; PtdIns-3-kinase regulatory subunit beta; Phosphatidylinositol 3-kinase 85 kDa regulatory subunit beta; PI3-kina |

## Antibody Specification

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| Description                 | phosphoinositide-3-kinase regulatory subunit 2(PIK3R2) Homo sapiens<br>Phosphatidylinositol 3-kinase (PI3K) is a lipid kinase that phosphorylates phosphatidylinositol and similar compounds, creating second messengers important in growth signaling pathways. PI3K functions as a heterodimer of a regulatory and a catalytic subunit. The protein encoded by this gene is a regulatory component of PI3K. Two transcript variants, one protein coding and the other non-protein coding, have been found for this gene. [provided by RefSeq, Dec 2012], |
| Cell Pathway/<br>Category   | Regulates Angiogenesis, Regulation_Microtubule, Regulation of Actin Dynamics, SAPK_JNK, Stem cell pathway, Insulin Receptor, ErbB/HER, AMPK, mTOR, B Cell Receptor, Adherens_Junction                                                                                                                                                                                                                                                                                                                                                                      |
| Protein Expression          | Brain,Epithelium,Kidney,Placenta,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Subcellular<br>Localization | nucleus,cytosol,phosphatidylinositol 3-kinase complex,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Protein Function            | function:Binds to activated (phosphorylated) protein-tyrosine kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 catalytic unit to the plasma membrane.,similarity:Belongs to the PI3K p85 subunit family.,similarity:Contains 1 Rho-GAP domain.,similarity:Contains 1 SH3 domain.,similarity:Contains 2 SH2 domains.,subunit:Heterodimer of a p110 (catalytic) and a p85 (regulatory) subunits.,                                                                                                              |
| Usage                       | For Research Use Only! Not for diagnostic or therapeutic procedures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |