

RACO0243

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## Product Information

**Size:**

50ul

**Reactivity:**

Human

**Source:**

Homo sapiens (Human)

**Isotype:**

Rabbit IgG

**Applications:**

ELISA, WB, IP

**Recommended dilutions:**

WB:1:500-1:5000, IP:1:200-1:1000

**Protein Background:**

Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns (Phosphatidylinositol), PtdIns4P (Phosphatidylinositol 4-phosphate) and PtdIns(4,5)P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3). PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Involved in the activation of AKT1 upon stimulation by G-protein coupled receptors (GPCRs) ligands such as CXCL12, sphingosine 1-phosphate, and lysophosphatidic acid.

**Gene ID:**

PIK3CB

**Uniprot**

P42338

**Synonyms:**

Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit beta isoform (PI3-kinase subunit beta) (PI3K-beta) (PI3Kbeta) (PtdIns-3-kinase subunit beta) (EC 2.7.1.153) (Phosphatidylinositol 4,5-bisphosphate 3-kinase 110 kDa catalytic subunit beta) (PtdIns-3-kinase subunit p110-beta) (p110beta), PIK3CB, PIK3C1

**Immunogen:**

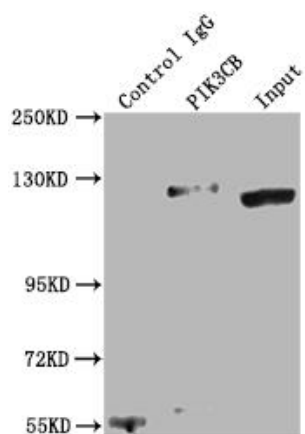
A synthesized peptide derived from human PI3 Kinase p110 beta.

**Storage:**

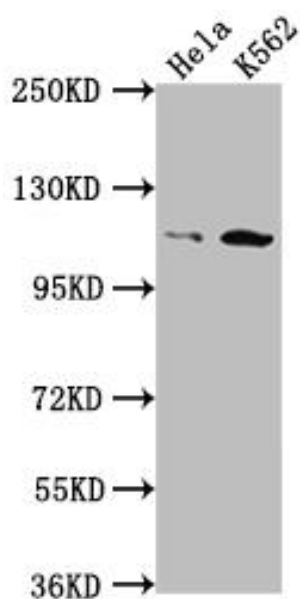
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

## Product Images

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Immunoprecipitating PIK3CB in K562 whole cell lysate) Lane 1: Rabbit control IgG instead of RACO0243 in K562 whole cell lysate)  
For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)  
Lane 2: RACO0243(2µg)+ K562 whole cell lysate)(500µg)  
Lane 3: K562 whole cell lysate) (10µg)



Western Blot  
Positive WB detected in( HeLa whole cell lysate) K562 whole cell lysate)  
All lanes: PIK3CB antibody at 1:1500  
Secondary  
Goat polyclonal to rabbit IgG at 1:50000 dilution  
Predicted band size: 123 kDa  
Observed band size: 110 kDa