



# PI 3-kinase p85 $\beta$ (phospho Tyr464) Polyclonal Antibody

<b>Catalog No</b>	BYab-14338
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	PIK3R2
<b>Protein Name</b>	Phosphatidylinositol 3-kinase regulatory subunit beta
<b>Immunogen</b>	Synthesized phospho-peptide around the phosphorylation site of human PI 3-kinase p85 $\beta$ (phospho Tyr464)
<b>Specificity</b>	Phospho-PI 3-kinase p85 $\beta$ (Y464) Polyclonal Antibody detects endogenous levels of PI 3-kinase p85 $\beta$ protein only when phosphorylated at Y464.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	$\geq 90\%$
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	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
<b>Observed Band</b>	85kD
<b>Cell Pathway</b>	nucleus,cytosol,phosphatidylinositol 3-kinase complex,
<b>Tissue Specificity</b>	Brain,Epithelium,Kidney,Placenta,
<b>Function</b>	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

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(catalytic) and a p85 (regulatory) subunits.,

**Background**

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],

**matters needing attention**

Avoid repeated freezing and thawing!

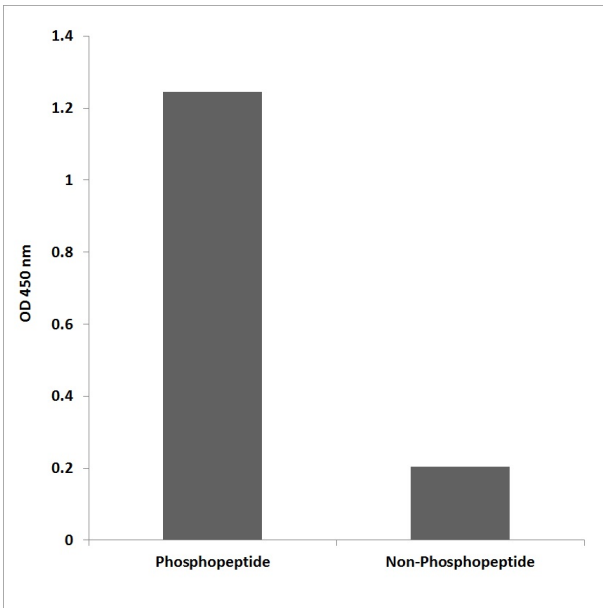
**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

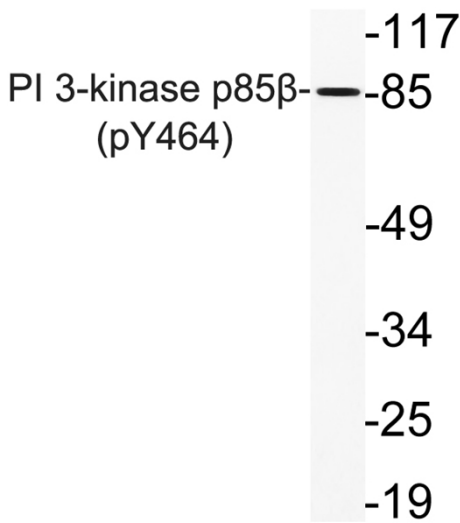
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## Products Images

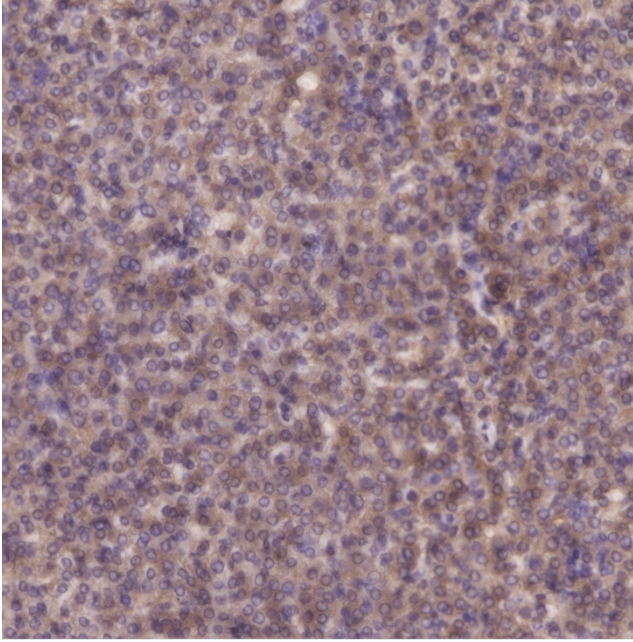


Enzyme-Linked Immunosorbent Assay  
 (Phospho-ELISA) for Immunogen Phosphopeptide  
 (Phospho-left) and Non-Phosphopeptide  
 (Phospho-right), using PI 3-kinase p85 $\beta$   
 (Phospho-Tyr464) Antibody



Western blot analysis of lysate from Jurkat cells, using  
 phospho-PI 3-kinase p85 $\beta$  (Phospho-Tyr464)  
 antibody.

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Immunohistochemical analysis of paraffin-embedded human Moderately differentiated hepatocellular carcinoma Antibody was diluted at 1:200(4° overnight).