

For Research Use Only

# PI3 Kinase p85 Beta Recombinant antibody

Catalog Number:83606-5-RR



## Basic Information

<b>Catalog Number:</b> 83606-5-RR	<b>GenBank Accession Number:</b> BC014170	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5296	<b>CloneNo.:</b> 240531B5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O00459	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IF/ICC 1:500-1:2000
<b>Isotype:</b> IgG	<b>Full Name:</b> phosphoinositide-3-kinase, regulatory subunit 2 (beta)	
<b>Immunogen Catalog Number:</b> AG14367	<b>Calculated MW:</b> 728 aa, 82 kDa	
	<b>Observed MW:</b> 82 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, ELISA

**Species Specificity:**  
human, rat

**Positive Controls:**  
**WB :** LNCaP cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells, NIH/3T3 cells, HSC-T6 cells

**IF/ICC :** Jurkat cells, HeLa cells

## Background Information

PIK3R2 is also named as PI3 Kinase p85 and belongs to the PI3K p85 subunit family. PI3 Kinase p85 is a regulatory subunit of phosphoinositide-3-kinase (PI3K) which is a kinase that phosphorylates phosphatidylinositol 4,5-bisphosphate to generate PIP3. PI3 Kinase p85 binds to activated (phosphorylated) protein-tyrosine kinases through its SH2 domain, and then acts as an adapter to mediate the association of the p110 catalytic unit to the plasma membrane. It promotes nuclear translocation of XBP1 isoform 2 in a ER stress or insulin-dependent manner during metabolic overloading in the liver and hence plays a role in glucose tolerance improvement (PMID:23604317).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

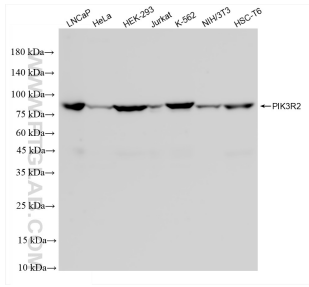
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

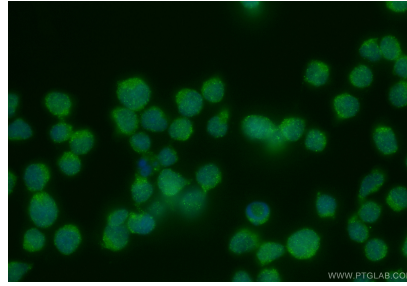
For technical support and original validation data for this product please contact:  
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E: proteintech@ptglab.com  
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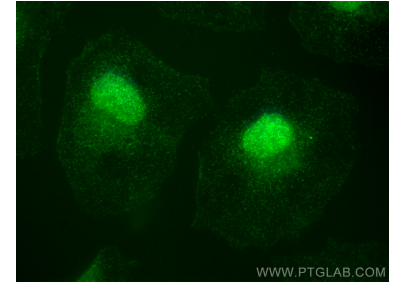
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83606-5-RR (PIK3R2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using PIK3R2 antibody (83606-5-RR, Clone: 240531B5) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PIK3R2 antibody (83606-5-RR, Clone: 240531B5) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).