PI3-Kinase p85/p55 (Phospho Tyr467/199) Rabbit pAb

CatalogNo: YP0224 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat,Monkey,Pig

Applications
- WB,IHC,IF,ELISA

MW
- 55kD,85kD (Observed)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
IF 1:200-1:1000
ELISA 1:10000
Not yet tested in other applications.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human PI3-kinase p85-alpha/gamma around the phosphorylation site of Tyr467/199. AA range:436-485

Specificity	This antibody detects endogenous levels of PI3 kinase p85/p55 only when phosphorylated at Human:Y467/Y199, Mouse:Y467/Y199, Rat:Y467/Y199..The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RLyEE

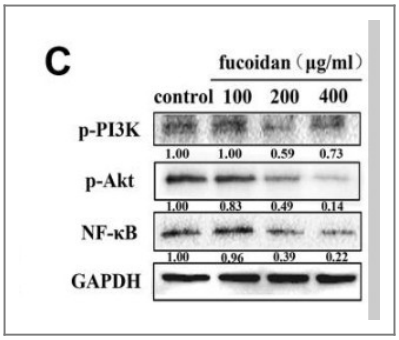
Target Information

Gene name	PIK3R1/PIK3R3
Protein Name	Phosphatidylinositol 3-kinase regulatory subunit alpha/gamma

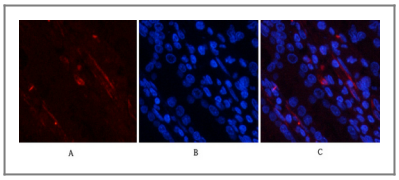
Organism	Gene ID	UniProt ID
Human	5295; 8503;	P27986; Q92569;
Mouse	18708; 18710;	P26450;
Rat	25513; 60664;	Q63787; Q63789;

Cellular Localization	nucleus ,cytoplasm ,cis-Golgi network ,cytosol ,plasma membrane ,cell-cell junction ,phosphatidylinositol 3-kinase complex ,phosphatidylinositol 3-kinase complex , class IA ,membrane ,perinuclear endoplasmic reticulum membrane ,
Tissue specificity	Isoform 2 is expressed in skeletal muscle and brain , and at lower levels in kidney and cardiac muscle. Isoform 2 and isoform 4 are present in skeletal muscle (at protein level) .
Function	Disease:Defects in PIK3R1 are a cause of severe insulin resistance. ,Domain:The SH3 domain mediates the binding to CBLB , and to HIV-1 Nef. ,Function:Binds to activated (phosphorylated) protein-Tyr kinases , through its SH2 domain , and acts as an adapter , mediating the association of the p110 catalytic unit to the plasma membrane. Necessary for the insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues. ,PTM:Polyubiquitinated in T-cells by CBLB; which does not promote proteasomal degradation but impairs association with CD28 and CD3Z upon T-cell activation. ,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. Interacts with phosphorylated TOM1L1. Interacts with phosphorylated LIME1 upon TCR and/or BCR activation. Interacts with SOCS7. Interacts with RUFY3 (By similarity) . Interacts with phosphorylated LAT , LAX1 and TRAT1 upon TCR activation. Interacts with CBLB. Interacts with HIV-1 Nef to activate the Nef associated p21-activated kinase (PAK) . This interaction depends on the C-terminus of both proteins and leads to increased production of HIV. Interacts with HCV NS5A. The SH2 domains interact with the YTHM motif of phosphorylated INSR in vitro. Also interacts with tyrosine-phosphorylated IGF1R in vitro. Interacts with CD28 and CD3Z upon T-cell activation. Interacts with IRS1 and phosphorylated IRS4 , as well as with NISCH and HCST. ,tissue specificity:Isoform 2 is expressed in skeletal muscle and brain , and at lower levels in kidney and cardiac muscle. Isoform 2 and isoform 4 are present in skeletal muscle (at protein level) . ,

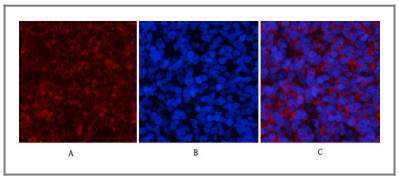
Validation Data



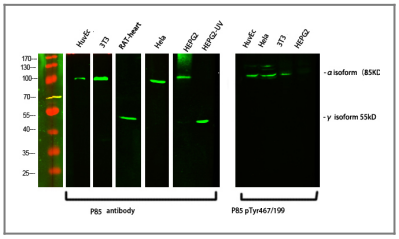
Yang, Yazong, et al. "Fucoidan inhibits lymphangiogenesis by downregulating the expression of VEGFR3 and PROX1 in human lymphatic endothelial cells." Oncotarget 7.25 (2016): 38025.



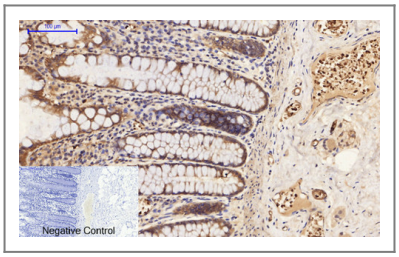
Immunofluorescence analysis of human-stomach tissue. 1,PI 3-kinase p85/p55 (phospho Tyr467/199) Polyclonal Antibody (red) was diluted at 1:200 (4℃ overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min).3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



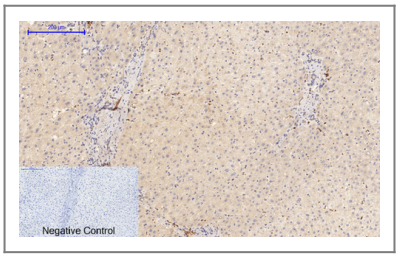
Immunofluorescence analysis of rat-spleen tissue. 1,PI 3-kinase p85/p55 (phospho Tyr467/199) Polyclonal Antibody (red) was diluted at 1:200 (4℃ overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min).3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



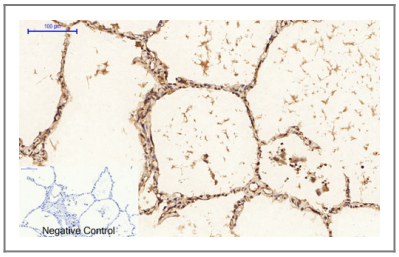
Western Blot analysis of various cells using primary antibody diluted at 1:1000 (4℃ overnight). Secondary antibody:Goat Anti-rabbit IgG IRDye 800 (diluted at 1:5000, 25℃, 1 hour)



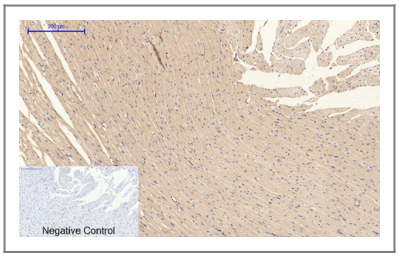
Immunohistochemical analysis of paraffin-embedded Human-colon tissue. 1,PI 3-kinase p85/p55 (phospho Tyr467/199) Polyclonal Antibody was diluted at 1:200 (4℃ overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98℃,20min). 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min). Negative control was used by secondary antibody only.



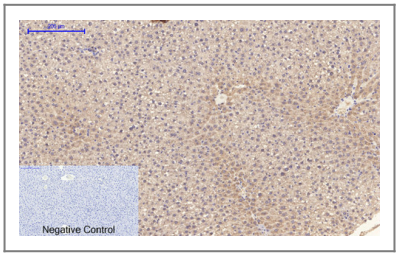
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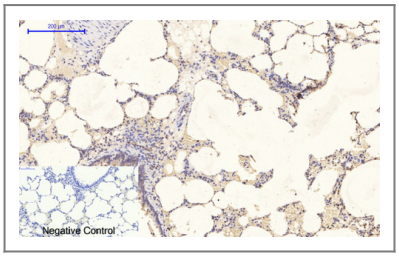
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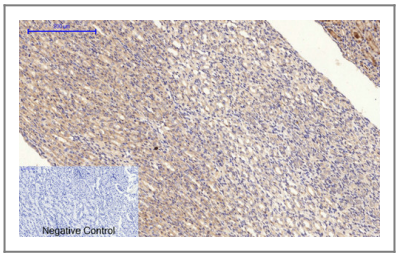
Immunohistochemical analysis of paraffin-embedded Rat-heart tissue. 1,PI 3-kinase p85/p55 (phospho Tyr467/199) Polyclonal Antibody was diluted at 1:200 (4℃ overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98℃,20min). 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min). Negative control was used by secondary antibody only.



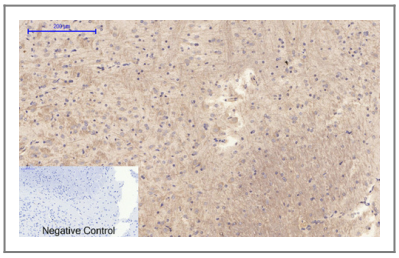
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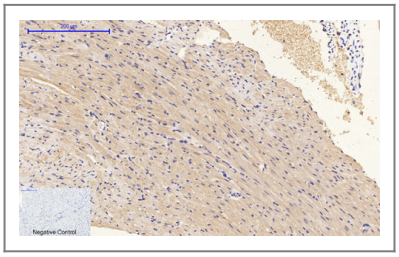
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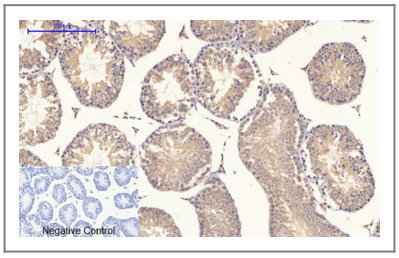
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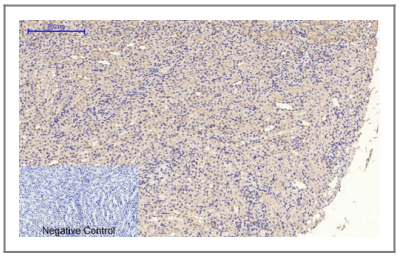
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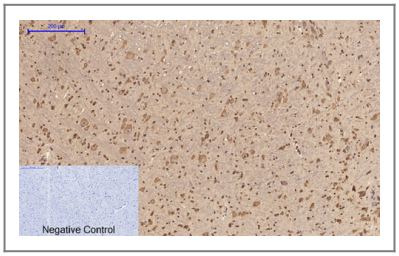
Immunohistochemical analysis of paraffin-embedded Mouse-heart tissue. 1,PI 3-kinase p85/p55 (phospho Tyr467/199) Polyclonal Antibody was diluted at 1:200 (4℃ overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98℃,20min). 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min). Negative control was used by secondary antibody only.



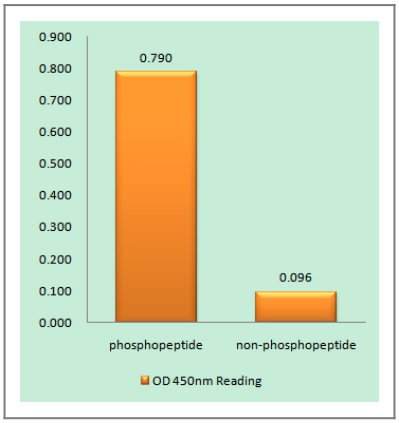
Immunohistochemical analysis of paraffin-embedded Mouse-testis tissue. 1,PI 3-kinase p85/p55 (phospho Tyr467/199) Polyclonal Antibody was diluted at 1:200 (4℃ overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98℃,20min). 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min). Negative control was used by secondary antibody only.



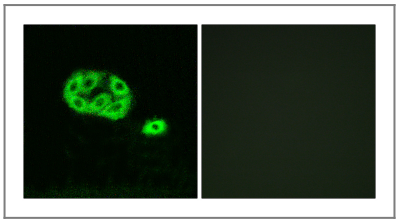
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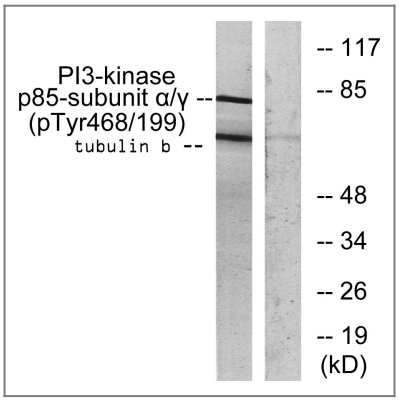
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Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PI3-kinase p85-alpha/gamma (Phospho-Tyr467/199) Antibody



Immunofluorescence analysis of NIH/3T3 cells, using PI3-kinase p85-alpha/gamma (Phospho-Tyr467/199) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from COS7 cells treated with H2O2 100uM 30', using PI3-kinase p85-alpha/gamma (Phospho-Tyr467/199) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information:
PI3-Kinase p85/p55 (Phospho Tyr467/199) Rabbit pAb

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