

## PI 3 Kinase P85 $\alpha$ (3B7) Mouse mAb

CatalogNo: YM3503 Orthogonal Validated 

### Key Features

#### Host Species

- Mouse

#### Reactivity

- Mouse,Rat

#### Applications

- WB,IHC,IF

#### MW

- 85kD (Observed)

### 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 1:1000-2000

IHC 1:100-200

IF 1:50-200

### Basic Information

**Clonality** Monoclonal

**Clone Number** 3B7

### Immunogen Information

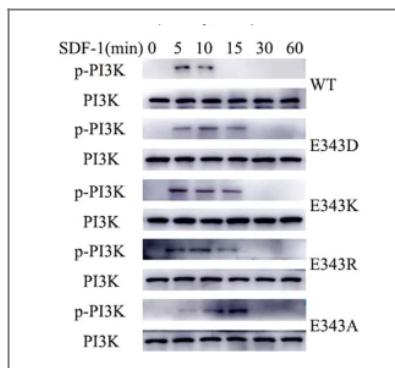
**Immunogen** Recombinant Protein of PI3 Kinase P85 $\alpha$

**Specificity** PI3 Kinase P85 $\alpha$  protein detects endogenous levels of PI3 Kinase P85 $\alpha$

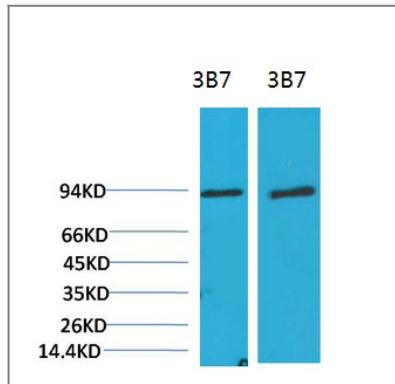
## Target Information

Gene name	PIK3R1		
Protein Name	Phosphatidylinositol 3-kinase regulatory subunit alpha (PI3-kinase regulatory subunit alpha) (PI3K regulatory subunit alpha) (PtdIns-3-kinase regulatory subunit alpha) (Phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha) (PI3-kinase subunit p85)		
Organism	Gene ID	UniProt ID	
Human	<a href="#">5295</a> ;	<a href="#">P27986</a> ;	
Mouse	<a href="#">18708</a> ;	<a href="#">P26450</a> ;	
Rat	<a href="#">25513</a> ;	<a href="#">Q63787</a> ;	
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).,		

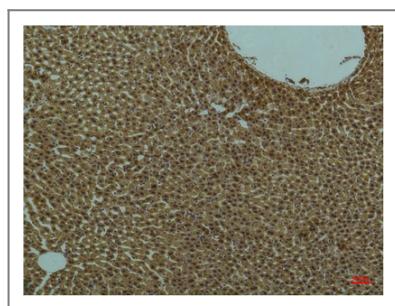
## Validation Data



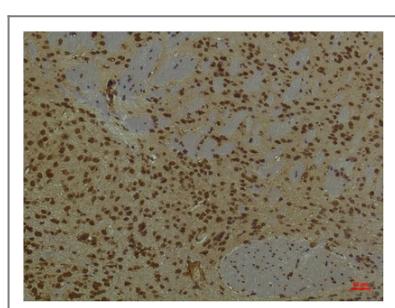
Wang, L., Xiong, Q., Li, P. et al. The negative charge of the 343 site is essential for maintaining physiological functions of CXCR4. *BMC Mol and Cell Biol* 22, 8 (2021).



Western blot analysis of 1)3T3, 2) Rat Liver Tissue with PI3 Kinase P85 $\alpha$  Mouse mAb diluted at 1:2,000.



Immunohistochemical analysis of paraffin-embedded Rat Liver Tissue using PI3 Kinase P85 $\alpha$  Mouse mAb diluted at 1:200.



Immunohistochemical analysis of paraffin-embedded Mouse Brain Tissue using PI3 Kinase P85 $\alpha$  Mouse mAb diluted at 1:200.

## Contact information

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**PI 3 Kinase P85 $\alpha$  (3B7) Mouse mAb**

