

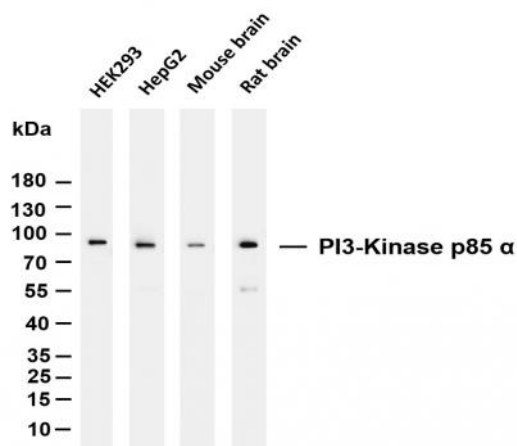
PI3-Kinase p85 α (PT0082R) PT® Rabbit mAb

Catalog No :	YM8045
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IHC;IF;IP;ELISA
Target :	PI3 Kinase P85 α
Fields :	>>EGFR tyrosine kinase inhibitor resistance;>>Endocrine resistance;>>Platinum drug resistance;>>ErbB signaling pathway;>>Ras signaling pathway;>>Rap1 signaling pathway;>>cAMP signaling pathway;>>Chemokine signaling pathway;>>HIF-1 signaling pathway;>>FoxO signaling pathway;>>Phosphatidylinositol signaling system;>>Sphingolipid signaling pathway;>>Phospholipase D signaling pathway;>>Autophagy - animal;>>mTOR signaling pathway;>>PI3K-Akt signaling pathway;>>AMPK signaling pathway;>>Apoptosis;>>Longevity regulating pathway;>>Longevity regulating pathway - multiple species;>>Cellular senescence;>>Axon guidance;>>VEGF signaling pathway;>>Osteoclast differentiation;>>Focal adhesion;>>Signaling pathways regulating pluripotency of stem cells;>>Platelet activation;>>Neutrophil extracellular trap formation;>>Toll-like receptor signaling pathway;>>C-type lectin receptor signaling pathway;>>JAK-STAT signaling pathway;>>Natural killer cell mediated cytotoxicity;>>T cell receptor signaling pathway;>
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 8
Human Gene Id :	5295
Human Swiss Prot No :	P27986
Mouse Swiss Prot No :	P26450
Rat Swiss Prot No :	Q63787
Specificity :	endogenous

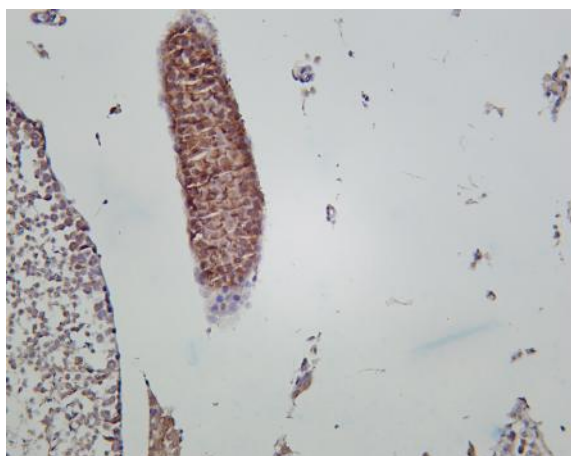
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	IHC 1:200-1000, WB 1:1000-5000, IF 1:200-1000, ELISA 1:5000-20000, IP 1:50-200
Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year (Do not lower than -25°C)
Molecularweight :	84kD
Observed Band :	84kD
Cell Pathway :	ErbB_HER; Chemokine; Phosphatidylinositol signaling system; mTOR; Apoptosis_Inhibition; Apoptosis_Mitochondrial; Apoptosis_Overview; VEGF; Focal adhesion; Toll_Like; Jak_STAT; Natural killer cell mediated cytoto
Background :	Phosphatidylinositol 3-kinase phosphorylates the inositol ring of phosphatidylinositol at the 3-prime position. The enzyme comprises a 110 kD catalytic subunit and a regulatory subunit of either 85, 55, or 50 kD. This gene encodes the 85 kD regulatory subunit. Phosphatidylinositol 3-kinase plays an important role in the metabolic actions of insulin, and a mutation in this gene has been associated with insulin resistance. Alternative splicing of this gene results in four transcript variants encoding different isoforms. [provided by RefSeq, Jun 2011],
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 phosphorylat
Subcellular Location :	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,
Expression :	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).

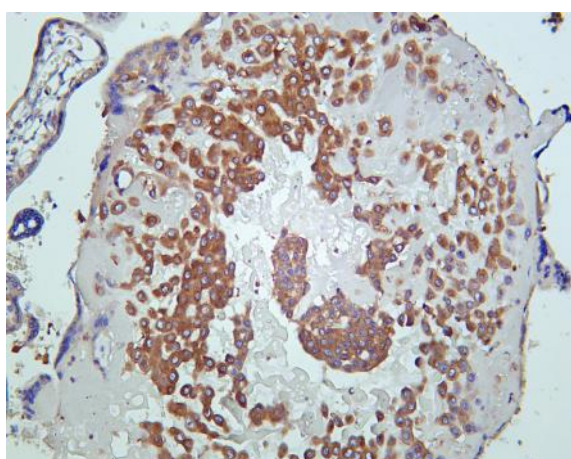
Products Images



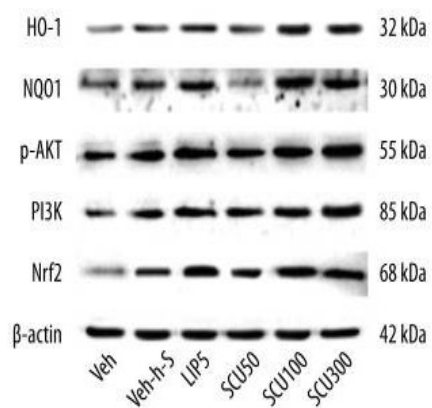
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-PI3-Kinase p85 α (PT0082R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HEK293 Lane 2: HepG2 Lane 3: Mouse brain Lane 4: Rat brain Predicted band size: 84kDa Observed band size: 84kDa



Mouse testis was stained with Anti-PI3-Kinase p85 α (PT0082R) rabbit Antibody



Human placenta was stained with Anti-PI3-Kinase p85 α (PT0082R) rabbit Antibody



Fan, Hua, et al. "Scutellarin Prevents Nonalcoholic Fatty Liver Disease (NAFLD) and Hyperlipidemia via PI3K/AKT-Dependent Activation of Nuclear Factor (Erythroid-Derived 2)-Like 2 (Nrf2) in Rats." *Medical science monitor: international medical journal of experimental and clinical research* 23 (2017): 5599.