

ARG53465 anti-PI3K p85 antibody [SP62]

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Monoclonal antibody [SP62] recognizes PI3K p85
Tested Reactivity	Hu
Tested Application	IHC-P, FACS
Host	Rabbit
Clonality	Monoclonal
Clone	SP62
Isotype	IgG
Target Name	PI3K p85
Antigen Species	Human
Immunogen	Synthetic peptide from N-terminus of human PI3K p85.
Conjugation	Un-conjugated
Full Name	phosphoinositide-3-kinase, regulatory subunit 1 (alpha)
Alternate Names	GRB1; PI3-kinase subunit p85-alpha; Phosphatidylinositol 3-kinase regulatory subunit alpha; IMD36; PtdIns-3-kinase regulatory subunit alpha; p85-ALPHA; p85; AGM7; PtdIns-3-kinase regulatory subunit p85-alpha; PI3-kinase regulatory subunit alpha; PI3K regulatory subunit alpha; Phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha

Application Instructions

Application table	Application	Dilution
	IHC-P	1:100
	FACS	Assay-Dependent
Application Note	IHC-P: Antigen Retrieval: Boil tissue section in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min. Incubation Time: 30 min at RT. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Placenta	
Calculated Mw	85 kDa	

Properties

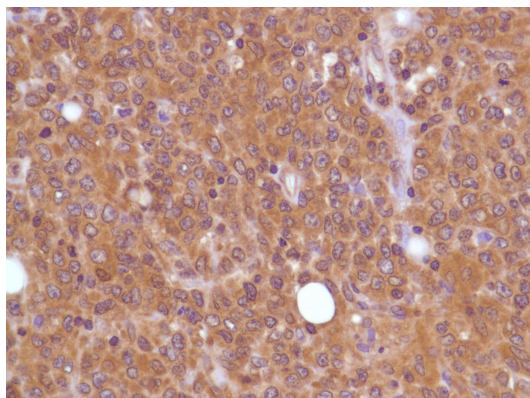
Form	Liquid
Purification	Purified by protein A/G
Buffer	PBS (pH 7.6), 1% BSA and < 0.1% Sodium azide

Preservative	< 0.1% Sodium azide
Stabilizer	1% BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

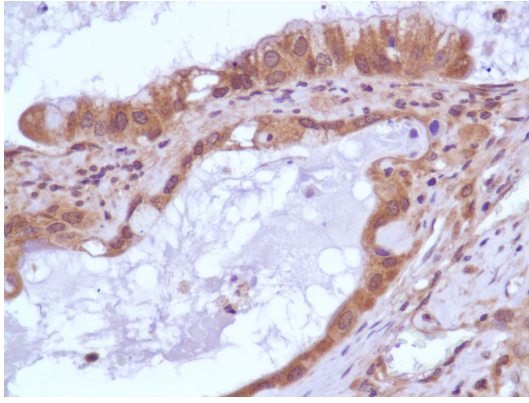
Database links	GeneID: 5295 Human Swiss-port # P27986 Human
Gene Symbol	PIK3R1
Background	Phosphatidylinositol 3-kinase phosphorylates the inositol ring of phosphatidylinositol at the 3-prime position. The enzyme comprises a 110 kD catalytic subunit and a regulatory subunit of either 85, 55, or 50 kD. 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	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. Plays an important role in signaling in response to FGFR1, FGFR2, FGFR3, FGFR4, KITLG/SCF, KIT, PDGFRA and PDGFRB. Likewise, plays a role in ITGB2 signaling (PubMed:17626883, PubMed:19805105, PubMed:7518429). Modulates the cellular response to ER stress by promoting nuclear translocation of XBP1 isoform 2 in a ER stress-and/or insulin-dependent manner during metabolic overloading in the liver and hence plays a role in glucose tolerance improvement (PubMed:20348923). [UniProt]
Resrarch Area	Cancer antibody; Immune System antibody; Signaling Transduction antibody
Cellular Localization	Cytoplasm

Images



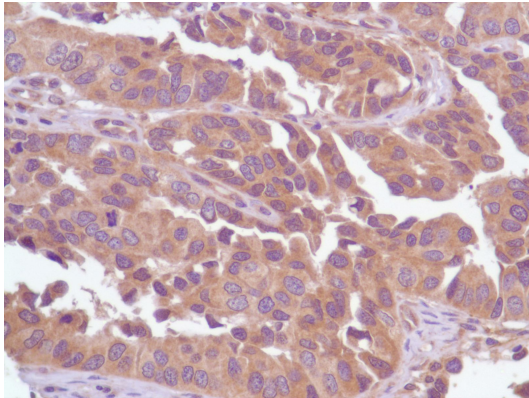
ARG53465 anti-PI3K p85 antibody [SP62] IHC-P image

Immunohistochemistry: Human Lung Adenocarcinoma stained with PI3K p85 antibody [SP62] (ARG53465)



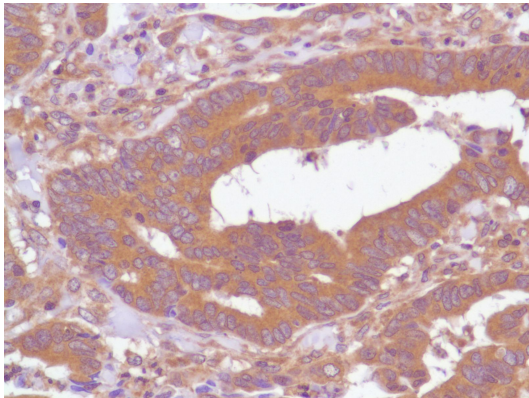
ARG53465 anti-PI3K p85 antibody [SP62] IHC-P image

Immunohistochemistry: Human Pancreatic Adenocarcinoma stained with PI3K p85 antibody [SP62] (ARG53465)



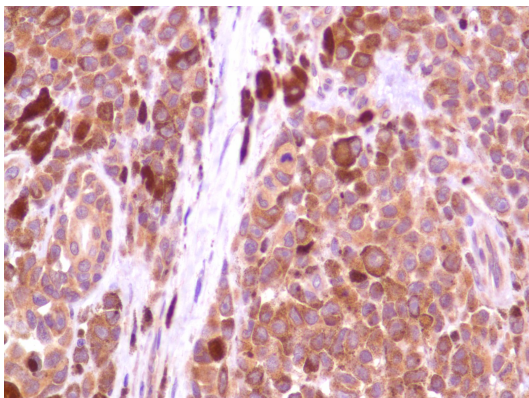
ARG53465 anti-PI3K p85 antibody [SP62] IHC-P image

Immunohistochemistry: Human Bladder Transitional Cell Carcinoma stained with PI3K p85 antibody [SP62] (ARG53465)



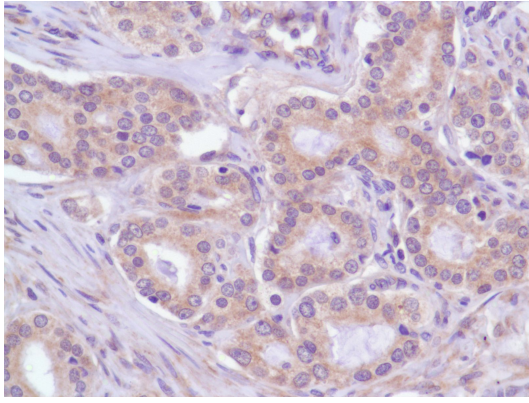
ARG53465 anti-PI3K p85 antibody [SP62] IHC-P image

Immunohistochemistry: Human Colon Adenocarcinoma stained with PI3K p85 antibody [SP62] (ARG53465)



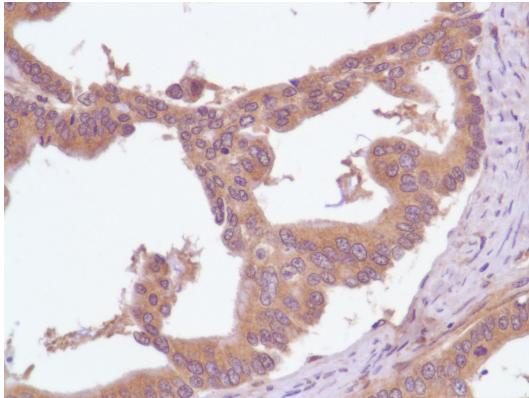
ARG53465 anti-PI3K p85 antibody [SP62] IHC-P image

Immunohistochemistry: Human Melanoma stained with PI3K p85 antibody [SP62] (ARG53465)



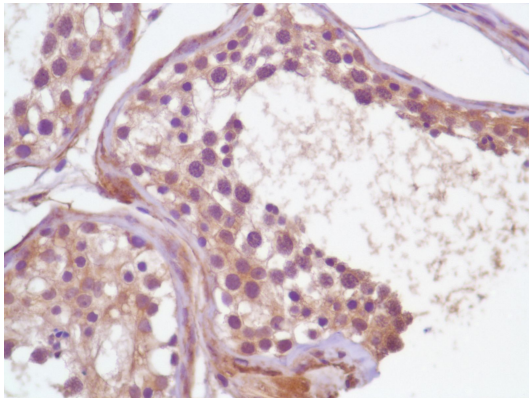
ARG53465 anti-PI3K p85 antibody [SP62] IHC-P image

Immunohistochemistry: Human Prostate Adenocarcinoma stained with PI3K p85 antibody [SP62] (ARG53465)



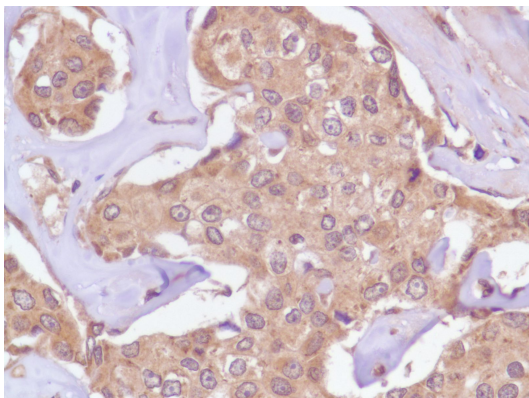
ARG53465 anti-PI3K p85 antibody [SP62] IHC-P image

Immunohistochemistry: Human Stomach Adenocarcinoma stained with PI3K p85 antibody [SP62] (ARG53465)



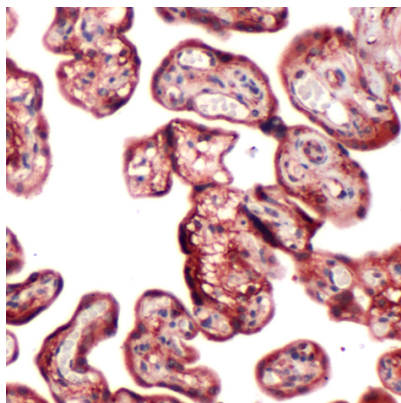
ARG53465 anti-PI3K p85 antibody [SP62] IHC-P image

Immunohistochemistry: Human Testis stained with PI3K p85 antibody [SP62] (ARG53465)



ARG53465 anti-PI3K p85 antibody [SP62] IHC-P image

Immunohistochemistry: Human Breast Adenocarcinoma stained with PI3K p85 antibody [SP62] (ARG53465)



ARG53465 anti-PI3K p85 antibody [SP62] IHC-P image

Immunohistochemistry: Human Placenta stained with PI3K p85 antibody [SP62] (ARG53465)