

## ARG66216 anti-PI3 Kinase p85 / p55 phospho (Tyr467 / 199) antibody

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes PI3 Kinase p85 / p55 phospho (Tyr467 / 199)
Tested Reactivity	Hu, Ms, Rat, Mk
Tested Application	IHC-P, WB
Specificity	This antibody detects endogenous levels of PI3 Kinase p85/p55 protein only when phosphorylated at Tyr467/199.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PI3 Kinase p85 / p55
Species	Human
Immunogen	Phosphospecific peptide around Tyr467/199 of Human PI3 Kinase p85/p55.
Conjugation	Un-conjugated
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; PI3K p85; PI3K p55

### Application Instructions

Application table	Application	Dilution
	IHC-P	1:100 - 1:300
	WB	1:500 - 1:2000

**Application Note** \* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.02% Sodium azide, 50% Glycerol and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol and 0.5% BSA
Concentration	1 mg/ml
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. 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.

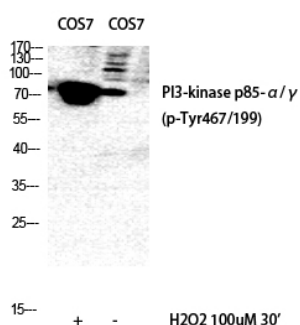
#### Note

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol	PIK3R1
Gene Full Name	phosphoinositide-3-kinase, regulatory subunit 1 (alpha)
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. 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. [UniProt]
Calculated Mw	84 kDa
PTM	Polyubiquitinated in T-cells by CBLB; which does not promote proteasomal degradation but impairs association with CD28 and CD3Z upon T-cell activation. Phosphorylated. Tyrosine phosphorylated in response to signaling by FGFR1, FGFR2, FGFR3 and FGFR4. Phosphorylated by CSF1R. Phosphorylated by ERBB4. Phosphorylated on tyrosine residues by TEK/TIE2. Dephosphorylated by PTPRJ. Phosphorylated by PIK3CA at Ser-608; phosphorylation is stimulated by insulin and PDGF. The relevance of phosphorylation by PIK3CA is however unclear (By similarity). Phosphorylated in response to KIT and KITLG/SCF. Phosphorylated by FGR.

## Images



ARG66216 anti-PI3 Kinase p85 / p55 phospho (Tyr467 / 199) antibody WB image

Western blot: COS7 cells treated with or without H2O2 stained with ARG66216 anti-PI3 Kinase p85 / p55 phospho (Tyr467 / 199) antibody at 1:1000 dilution.