

Product datasheet for **AP08765PU-S**

PI 3 Kinase p85 alpha (PIK3R1) pTyr467 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Suitable for use in in Western blot (1/500-1/1000).
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from human PI3K P85 around the phosphorylation site of Tyrosine 467 (L-YP-E-E-Y).
Specificity:	This antibody detects endogenous levels of total PI3K P85 only when phosphorylated at Tyrosine 467.
Formulation:	PBS (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography using epitope-specific phosphopeptide.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	phosphoinositide-3-kinase regulatory subunit 1
Database Link:	Entrez Gene 5295 Human P27986



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Background:

The enzyme phosphatidylinositol 3 kinase (PI3 kinase) is a lipid kinase that generates phosphatidylinositol 3, 4, 5-triphosphate in response to receptor activation in many signal transduction pathways. Class IA PI3Ks exist as a heterodimer of a catalytic 110 kDa (p110) and a regulatory p85 subunit (e.g. p85 alpha). p85 alpha is an adaptor molecule that regulates the activity of the catalytic p110 subunit by binding to phosphorylated receptor tyrosine kinases (RTKs) through its SH2 domain and mediating the interaction between p110 and the plasma membrane. p85 alpha is necessary for insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues.

Synonyms:

PI3K regulatory subunit alpha, PI3-kinase subunit p85-alpha

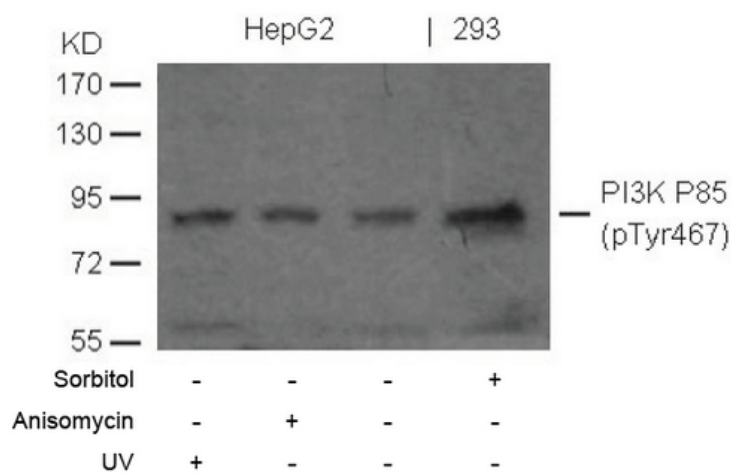
Product images:


Figure 1. Western blot analysis of HepG2 and 293 cell extracts using PI3KP85 pTyr467 Antibody AP08765PU.