

Product datasheet for **AM2667AF-N**

PI 3 Kinase p85 alpha (PIK3R1) Mouse Monoclonal Antibody [Clone ID: AB6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AB6
Applications:	IF, IP, WB
Recommended Dilution:	Western blot: 1 µg/mL for chemiluminescence detection system. Immunoprecipitation: 1-5 µg/600 µl of cell extract from 5x10 ⁶ cells. Immunocytochemistry: 10 µg/ml.
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human p85alpha.
Specificity:	This antibody reacts with p85alpha, which is regulatory subunit of PI3-kinase on Western blot, Immunoprecipitation and Immunocytochemistry. This antibody recognizes mutant p85alpha protein expressed in E. coli to be possessed in amino acid position '1-79' described below. This antibody does not react with p85beta.
Formulation:	PBS containing 50% glycerol, pH 7.2 State: Azide Free State: Liquid Ig fraction without preservatives
Concentration:	lot specific
Purification:	Protein A agarose
Conjugation:	Unconjugated
Storage:	Store (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:

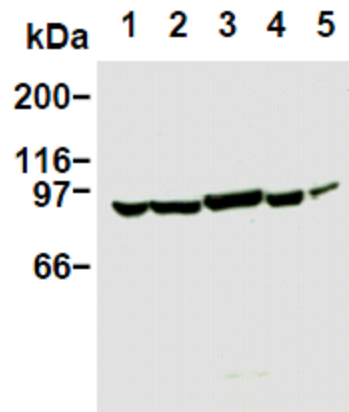
Phosphoinositide 3-kinase (PI3K) family of enzymes generate 3-phosphorylated phosphoinositides that act as second messengers downstream of numerous cellular receptors. This family control several cellular responses including cell growth, survival cytoskeletal remodeling and the trafficking of intracellular organelles in many different cell types. There are four subgroups (class IA, IB, II, III) of PI3K with distinct structure and substrate specificity. Class IA PI3K, which function downstream of activated tyrosine kinases, are heterodimers composed of a p110 catalytic subunit (a, b, or γ) and a tightly associated regulatory subunit (p85a, p55a, p50a, p85B, or p55y). Each regulatory subunit can interchangeably associate with different catalytic subunits and shows a unique tissue distribution. p85a is the major regulatory subunit of class IA PI3Ks in most types of cells including immune cells.

Synonyms:

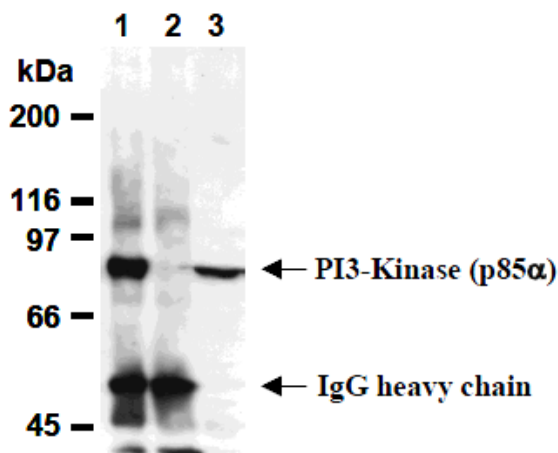
PI3K regulatory subunit alpha, PI3-kinase subunit p85-alpha

Note:

This product was originally produced by MBL International.

Product images:


Western blot analysis of PI3 kinase (p85alpha) expression in Jurkat (1), Raji (2), U937 (3), WR19L (4) and PC12 (5) using AM26667AF-N.



Immunoprecipitation of PI3-Kinase (p85alpha) from Jurkat cells with AM26667AF-N (1) or mouse IgG1 (2). After immunoprecipitated with the antibody, immunocomplex was resolved on SDSPAGE and immunoblotted with AM26667AF-N. Jurkat crude lysate was resolved in lane 3.