Pi 3-Kinase P85alpha (PIK3R1) Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	PI 3-kinase p85alpha (PIK3R1), Polyclonal Antibody
Full Product Name	PI 3-kinase p85alpha (phospho Tyr607) Polyclonal Antibody
Product Gene Name	anti-PIK3R1 antibody
Clonality	Polyclonal
Molecular Weight	42,838 Da
OMIM	171833
3D Structure	ModBase 3D Structure for P27986
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-PIK3R1 antibody	MBS8520539 is an antibody targeting PIK3R1. Also known as PI 3-kinase p85alpha (phospho Tyr607) Polyclonal Antibody.
Other Notes	Small volumes of anti-PIK3R1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PIK3R1. It may not necessarily be applicable to this product.

NCBI GI #	335057534
NCBI GeneID	5295
NCBI Accession #	NP_001229395.1
UniProt Primary Accession #	P27986
UniProt Secondary Accession #	Q15747; Q4VBZ7; Q53EM6; Q8IXA2; Q8N1C5; B3KT19; D3DWA0; E7EX19
UniProt Related Accession #	P27986
GenBank Nucleotide #	NM_001242466.1
NCBI Official Full Name	phosphatidylinositol 3-kinase regulatory subunit alpha isoform 4
NCBI Official Synonym Full Names	phosphoinositide-3-kinase regulatory subunit 1
NCBI Official Symbol	PIK3R1
NCBI Official Synonym Symbols	p85; AGM7; GRB1; IMD36; p85-ALPHA
UniProt Protein Name	Phosphatidylinositol 3-kinase regulatory subunit alpha
UniProt Synonym Protein Names	Phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha; PI3-kinase subunit p85-alpha; PtdIns-3-kinase regulatory subunit p85-alpha
Protein Family	Phosphatidylinositol 3-kinase regulatory
UniProt Gene Name	PIK3R1
UniProt Synonym Gene Names	GRB1; PI3-kinase regulatory subunit alpha; PI3K regulatory subunit alpha; PtdIns-3-kinase regulatory subunit alpha; PI3-kinase subunit p85-alpha; PtdIns-3-kinase regulatory subunit p85-alpha

NCBI Protein Information	phosphatidylinositol 3-kinase regulatory subunit alpha
NCBI Summary for PIK3R1	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]
UniProt Comments for PIK3R1	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).
Research Articles on PIK3R1	**1.** cSH2 domain of p85alpha engages its two CaM-binding motifs in the interaction with the N- and C-lobes of CaM as well as the flexible central linker, and our nuclear magnetic resonance experiments provide structural details.
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