Recombinant Mouse Pik3r1 Protein, Myc/DDK-tagged

Cat. No. Pik3r1-4865M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length phosphoinositide-3-kinase regulatory subunit 1 (Pik3r1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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
Molecular Mass	83.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Pik3r1 phosphoinositide-3-kinase regulatory subunit 1 [Mus musculus (house mouse)]
Official Symbol	Pik3r1
Synonyms	PIK3R1; phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 1 (p85 alpha); phosphatidylinositol 3-kinase regulatory subunit alpha; PI3-kinase subunit p85-alpha; PI3K regulatory subunit alpha; PI3-kinase regulatory subunit alpha; ptdIns-3-kinase regulatory subunit alpha; ptdIns-3-kinase regulatory subunit p85-alpha; phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha; PI3K; AA414921; p50alpha; p55alpha; p85alpha; C530050K14
Gene ID	18708
mRNA Refseq	NM_001077495
Protein Refseq	NP_001070963
UniProt ID	P26450

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