Product Name: KD-Validated PI3 Kinase p85 Alpha Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAb01676

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:2,000-1:10,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 83.6kDa

Antigen Information

Gene Name	PIK3R1
Alternative Names	PIK3R1; Phosphoinositide-3-Kinase Regulatory Subunit 1; GRB1; P85-ALPHA; P85; Phosphatidylinositol 3-Kinase 85 KDa Regulatory Subunit Alpha; Phosphoinositide-3-Kinase, Regulatory Subunit 1 (Alpha); Phosphatidylinositol 3-Kinase Regulatory Subunit Alpha; Phosphoinositide-3-Kinase Regulatory Subunit Alpha; PtdIns-3-Kinase Regulatory Subunit Alpha; Growth Factor Receptor Bound 1; PI3K Regulatory Subunit Alpha; PI3-Kinase Subunit P85-Alpha; PI3 Kinase-Associated P85; P85alpha; Phosphatidylinositol 3-Kinase, Regulatory Subunit, Polypeptide 1 (P85 Alpha); Phosphatidylinositol 3-Kinase-Associated P-85 Alpha; PtdIns-3-Kinase Regulatory Subunit P85-Alpha; PI3-Kinase Regulatory Subunit Alpha; P85ALPHA; IMD36; AGM7

Gene ID	5295.0
SwissProt ID	P27986
Immunogen	A synthesized peptide derived from human PI3 Kinase p85 alpha

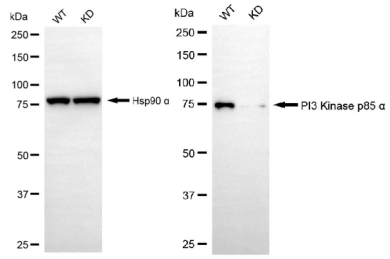
Background

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]

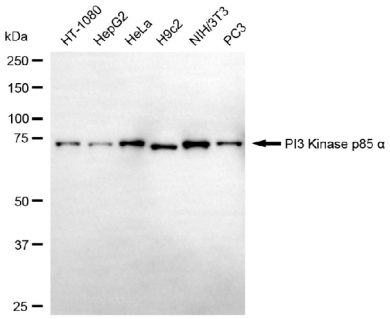
Research Area

Signal Transduction,Cancer,Immunology,Neuroscience

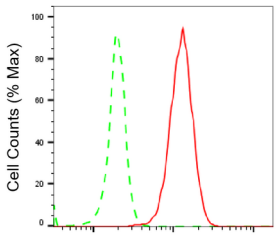
Image Data



Western blotting analysis using PI3 Kinase p85 alpha antibody (KVAb01676). PI3 Kinase p85 alpha expression in wild-type (WT) and PIK3R1 knockdown (KD) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PI3 Kinase p85 alpha antibody (KVAb01676, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using PI3 Kinase p85 alpha antibody (KVAb01676). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PI3 Kinase p85 alpha antibody (KVAb01676, 1:10,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Flow cytometric analysis of PI3 Kinase p85 alpha expression in C2C12 cells using PI3 Kinase p85 alpha antibody (KVAb01676, 1:2,000). Green, isotype control; red, PI3 Kinase p85 alpha.