

Datasheet for ABIN7163163
anti-PIK3R1 antibody (Regulatory Subunit A)



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2 Images

Overview

Quantity:	100 µg
Target:	PIK3R1 (PI3K p85a)
Binding Specificity:	AA 160-376, Regulatory Subunit A
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIK3R1 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human Phosphatidylinositol 3-kinase regulatory subunit alpha protein (160-376AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	PIK3R1 (PI3K p85a)
Alternative Name:	PIK3R1 (PI3K p85a Products)
Background:	Background: Binds to activated (phosphorylated) protein-Tyr kinases, through its SH2 domain,

Target Details

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).

Aliases: GRB1 antibody, p85 alpha antibody, p85 antibody, P85A_HUMAN antibody, Phosphatidylinositol 3 kinase associated p 85 alpha antibody, Phosphatidylinositol 3 kinase regulatory 1 antibody, Phosphatidylinositol 3 kinase, regulatory subunit, polypeptide 1 (p85 alpha) antibody, Phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha antibody, Phosphatidylinositol 3-kinase regulatory subunit alpha antibody, Phosphoinositide 3 kinase, regulatory subunit 1 (alpha) antibody, PI3 kinase p85 antibody, PI3 kinase p85 subunit alpha antibody, PI3-kinase regulatory subunit alpha antibody, PI3-kinase subunit p85-alpha antibody, PI3K antibody, PI3K p85 antibody, PI3K regulatory subunit alpha antibody, Pik3r1 antibody, PtdIns 3 kinase p85 alpha antibody, PtdIns-3-kinase regulatory subunit alpha antibody, PtdIns-3-kinase regulatory subunit p85-alpha antibody

UniProt: [P27986](#)

Pathways: [TCR Signaling](#), [Response to Growth Hormone Stimulus](#), [Regulation of Muscle Cell Differentiation](#), [Skeletal Muscle Fiber Development](#), [Hepatitis C](#), [Protein targeting to Nucleus](#), [VEGF Signaling](#), [BCR Signaling](#), [Warburg Effect](#)

Application Details

Application Notes: Recommended dilution: IHC:1:20-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be

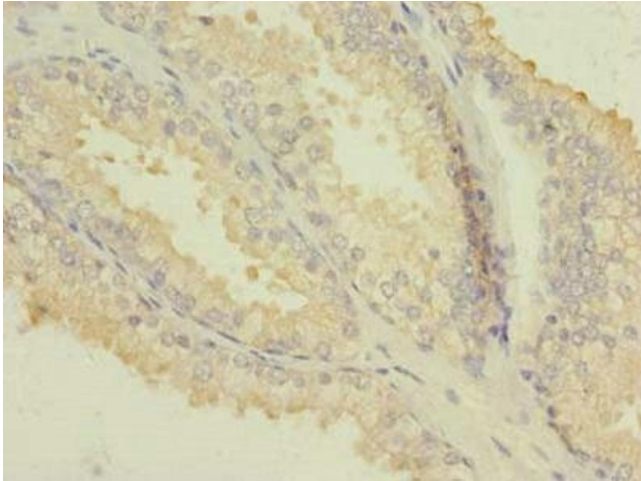
Handling

handled by trained staff only.

Storage: -20 °C,-80 °C

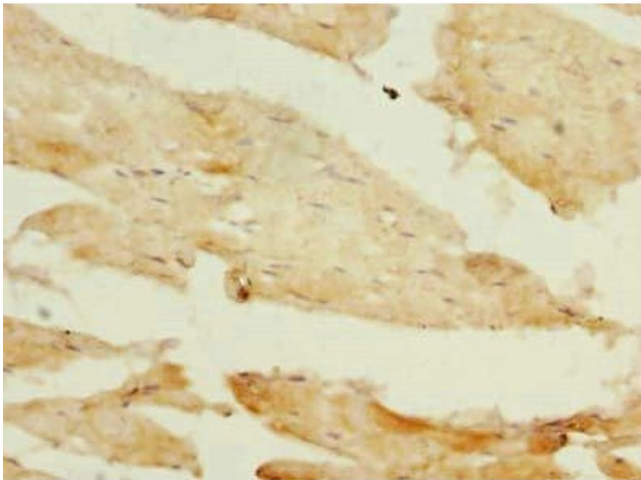
Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human prostate cancer using ABIN7163163 at dilution of 1:100



Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded human skeletal muscle tissue using ABIN7163163 at dilution of 1:100