Datasheet for ABIN7269319

anti-PIK3R1 antibody

2 Images

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Overview

Quantity:	100 µL
Target:	PIK3R1 (PI3K p85a)
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This PIK3R1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	PI3 Kinase p85 alpha Rabbit mAb
Immunogen:	A synthesized peptide derived from human PI3 Kinase p85 alpha
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	PIK3R1 (PI3K p85a)
Alternative Name:	PIK3R1 (PI3K p85a Products)
Background:	Phosphatidylinositol 3-kinase phosphorylates the inositol ring of phosphatidylinositol at the 3-

Target Details

	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],AGM7, GRB1, IMD36, p85, p85-ALPHA,AMPK Signaling Pathway,Angiogenesis,Apoptosis,Apoptosis_Inhibition of Apoptosis,Apoptosis_Mitochondrial Control of Apoptosis,B Cell Receptor Signaling Pathway,Cancer,Cardiovascular,Cell Adhesion,Cell Biology & Developmental Biology,Cell Intrinsic Innate Immunity Signaling Pathway,Cytokines,Cytoskeleton,Cytoskeleton_Actins,Cytoskeleton_Microtubules,Endocrine & Metabolism,Epigenetics & Nuclear Signaling,ErbB-HER Signaling Pathway,ESC Pluripotency and Differentiation,G protein signaling,IL-6 Receptor Signaling Pathway,Immunology & Inflammation,Innate Immunity_TLR Signaling,Insulin Receptor Signaling Pathway,Kinase,Lipid Metabolism,MAPK-Erk Signaling Pathway,MAPK-JNK Signaling Pathway,mTOR Signaling Pathway,NF-kB Signaling Pathway,PI3K-Akt Signaling Pathway,PI3K-Akt Signaling Pathway_PI3Ks and related,Protein Kinase C Signaling Pathway Pathway,Signal Transduction,T Cell Receptor Signaling Pathway,TGF-b-Smad Signaling Pathway,Toll-like Receptor Signaling Pathway,Translation Control,Translational Control_Regulation of eIF4 and p70 S6 Kinase,Warburg Effect,PIK3R1
Molecular Weight:	83kDa
Gene ID:	5295
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:	WB,1:500 - 1:2000,IHC,1:50 - 1:200
Restrictions:	For Research Use only

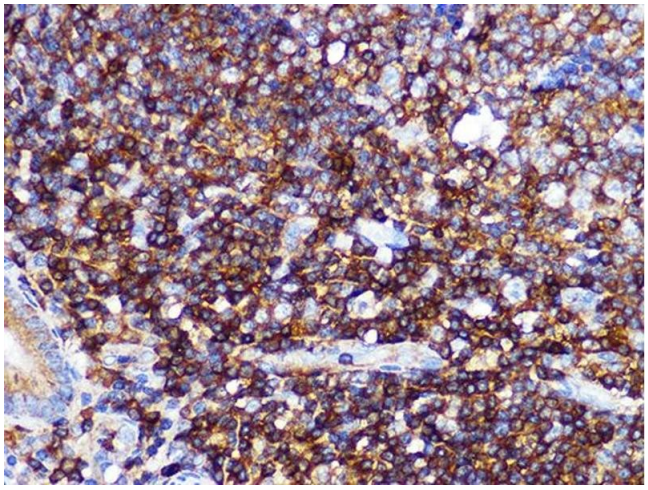
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

Handling

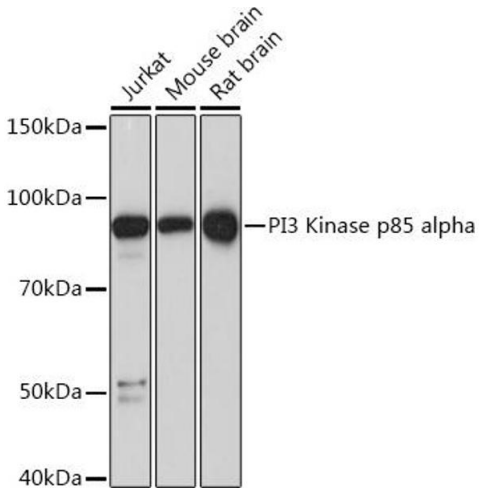
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human appendix using PI3 Kinase p85 alpha Rabbit mAb (ABIN7269319) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using PI3 Kinase p85 alpha Rabbit mAb (ABIN7269319) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 3 min.