

Datasheet for ABIN711041
anti-PIK3R1 antibody (pTyr368)

2 Images



[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	PIK3R1 (PI3K p85a)
Binding Specificity:	pTyr368
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIK3R1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human PI3KR1 around the phosphorylation site of Tyr368 [GD(p-Y)TL]
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Pig,Horse
Purification:	Purified by Protein A.

Target Details

Target: PIK3R1 (PI3K p85a)

Alternative Name: PI3KR1 ([PI3K p85a Products](#))

Background: Synonyms: PI3KR1phospho Y368, GRB 1, GRB1, p85 alpha, p85, P85A_HUMAN, Phosphatidylinositol 3 kinase associated p 85 alpha, Phosphatidylinositol 3 kinase regulatory 1, Phosphatidylinositol 3 kinase regulatory subunit alpha, Phosphatidylinositol 3 kinase regulatory subunit polypeptide 1 p85 alpha, Phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha, Phosphatidylinositol 3-kinase regulatory subunit alpha, Phosphoinositide 3 kinase regulatory subunit 1 alpha, Phosphoinositide 3 kinase regulatory subunit 1 p85 alpha, Phosphoinositide 3 kinase regulatory subunit 1, Phosphoinositide 3 kinase regulatory subunit polypeptide 1 p85 alpha, PI3 kinase p85 subunit alpha, PI3-kinase regulatory subunit alpha, PI3-kinase subunit p85-alpha, PI3K, PI3K regulatory subunit alpha, PI3kr1, PtdIns 3 kinase p85 alpha, PtdIns-3-kinase regulatory subunit alpha, PtdIns-3-kinase regulatory subunit p85-alpha.

Background: The enzyme phosphatidylinositol 3 kinase (PI3 kinase) is a lipid kinase that generates phosphatidylinositol 3, 4, 5-triphosphate in response to receptor activation in many signal transduction pathways. Class IA PI3Ks exist as a heterodimer of a catalytic 110 kDa (p110) and a regulatory p85 subunit (e.g. p85 alpha). p85 alpha is an adaptor molecule that regulates the activity of the catalytic p110 subunit by binding to phosphorylated receptor tyrosine kinases (RTKs) through its SH2 domain and mediating the interaction between p110 and the plasma membrane. p85 alpha is necessary for insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues.

Molecular Weight: 85kDa

Gene ID: 5295

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 1:300-5000
ELISA 1:500-1000
FCM 1:20-100
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200

Application Details

IF(IHC-F) 1:50-200

IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

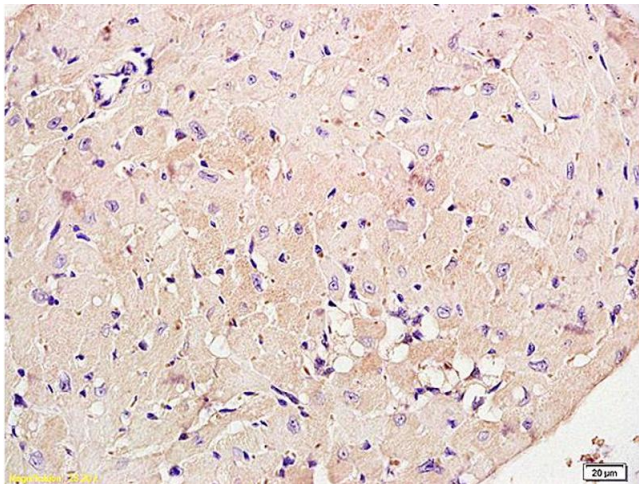
Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

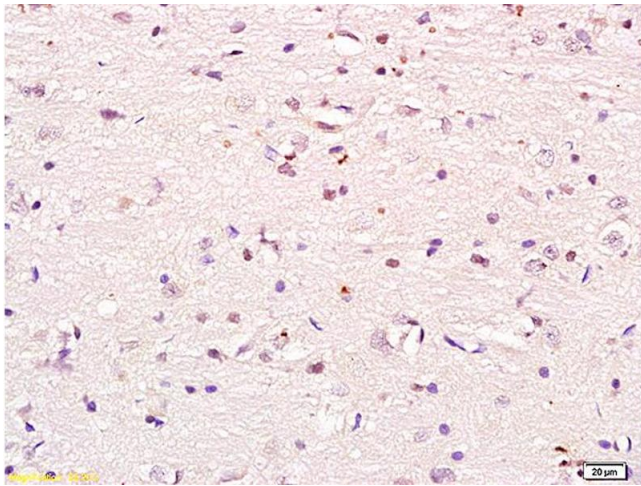
Expiry Date: 12 months

Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat brain labeled with Anti phospho-PI3K p85/PIK3R1(Tyr368) Polyclonal Antibody, Unconjugated (ABIN711041) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded mouse heart labeled with Anti phospho-PI3K p85/PIK3R1(Tyr368) Polyclonal Antibody, Unconjugated (ABIN711041) at 1:200 followed by conjugation to the secondary antibody and DAB staining