

Datasheet for ABIN2017599
anti-PIK3R1 antibody (AA 600-650)



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2 Images

Overview

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|----------------------|--|
| Quantity: | 100 µg |
| Target: | PIK3R1 (PI3K p85a) |
| Binding Specificity: | AA 600-650 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This PIK3R1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Flow Cytometry (FACS) |

Product Details

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|-----------------------------|--|
| Immunogen: | KLH-coupled synthetic peptide within AA 600-650 of human PI3 Kinase p85 alpha . |
| Isotype: | IgG2b |
| Specificity: | PI3 Kinase p85 alpha Antibody detects endogenous levels of human PI3 Kinase p85 alpha. Predicted to react with mouse and rat PI3 Kinase p85 alpha according to sequence homology. Positive Control: Ramos |
| Cross-Reactivity (Details): | PI3 Kinase p85 alpha Antibody detects endogenous levels of human PI3 Kinase p85 alpha. Predicted to react with mouse and rat PI3 Kinase p85 alpha according to sequence homology. Positive Control: Ramos |
| Purification: | Immunoaffinity chromatography |

Target Details

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|-------------------|---|
| Target: | PIK3R1 (PI3K p85a) |
| Alternative Name: | PI3 Kinase p85 alpha (PI3K p85a Products) |
| Background: | <p>Phosphoinositide 3-kinase (PI3K) catalyzes the phosphatidylinositol-3,4,5-triphosphate by phosphorylating phosphatidylinositol (PI), phosphatidylinositol-4-phosphate (PIP), and phosphatidylinositol-4,5-bisphosphate (PIP2). PI3Ks are composed of a catalytic subunit (p110) and a regulatory subunit (p85). The catalytic subunits of PI3K include p110 alpha, p110 beta, p110 gamma, and p110 delta, while the regulatory subunits contain p85 alpha and p85 beta. p85 alpha regulates the catalytic activity of p110 subunit by binding to phosphorylated receptor tyrosine kinases (RTKs) through its SH2 domain. The p85 alpha has been implicated in insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues. PI3 Kinase p85 alpha Antibody is developed in rabbit using a KLH-coupled synthetic peptide within residues 600-50 of human PI3 Kinase p85 alpha (Swiss Prot: P27986).</p> |
| 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

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| Application Notes: | <p>Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.</p> <p>Western blot: 2-4 µg/mL Flow cytometry: 1-3 µg for 1 x 10⁶ cells Other Applications: user optimized</p> |
| Restrictions: | For Research Use only |

Handling

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|--------------------|--|
| Format: | Lyophilized |
| Buffer: | PBS, pH 7.4, containing 0.02 % sodium azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | WARNING: Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled. |

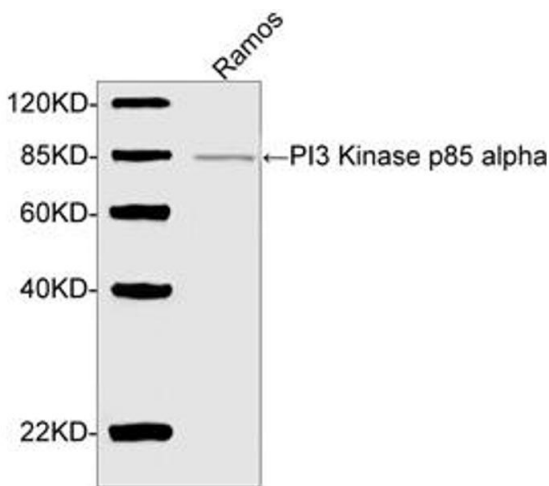
Handling

Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.

Storage: 4 °C/-20 °C

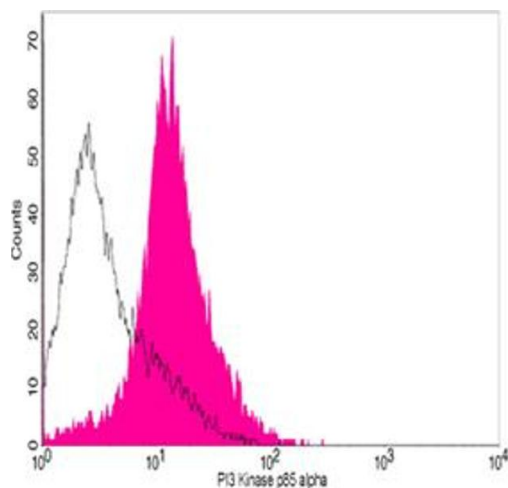
Storage Comment: The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

Images



Western Blotting

Image 1. Western blot analysis of cell lysate using PI3 Kinase p85 alpha Antibody (ABIN399038, 2 µg/mL). The signal was developed with IRDye™ 800 Conjugated Goat Anti-Rabbit IgG. Predicted Size: 85 KD Observed Size: 85 KD



Flow Cytometry

Image 2. Flow cytometric analysis of Ramos cells using PI3 Kinase p85 alpha antibody, pAb, Rabbit (ABIN399038, shaded histogram) or with an isotype control antibody (ABIN398653, open histogram), followed by R-PE conjugated anti-rabbit IgG.