Datasheet for ABIN5008788

# anti-PIK3R1 antibody (AA 1-110)

2 Images

Go to Product page

## Overview

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|---|---|
| Quantity: | 100 µL |
| Target: | PIK3R1 (PI3K p85a) |
| Binding Specificity: | AA 1-110 |
| Reactivity: | Human, Mouse, Rat, Chicken |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This PIK3R1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

## Product Details

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|---|---|
| Immunogen: | Recombinant mouse PI3K p85 Protein |
| Clone: | 5C11 |
| Isotype: | IgG |
| Cross-Reactivity: | Chicken, Human, Mouse, Rat |
| Purification: | Purified by Protein G. |

## Target Details

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|---|---|
| Target: | PIK3R1 (PI3K p85a) |
| Alternative Name: | PI3K p85 (PI3K p85a Products) |

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## Target Details

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|---|---|
| Background: | Synonyms: Phosphatidylinositol 3-kinase regulatory subunit alpha, Pik3r1, PI3K regulatory subunit alpha, PtdIns-3-kinase regulatory subunit alpha, Phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha, PI3-kinase subunit p85-alpha, PtdIns-3-kinase regulatory subunit p85-alpha<br>Background: Binds to activated (phosphorylated) protein-Tyr kinases, through its SH2 domain, 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 (By similarity). 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:20348926). |
| Gene ID: | 18708 |
| UniProt: | P26450 |
| 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: | WB 1:300-5000<br>IHC-P 1:200-400<br>IF(IHC-P) 1:50-200 |
| Restrictions: | For Research Use only |

## Handling

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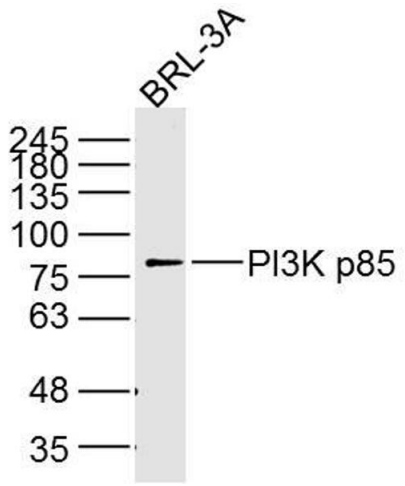
|---|---|
| Format: | Liquid |
| Concentration: | 1 μg/μL |
| Buffer: | 0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol. |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |

## Handling

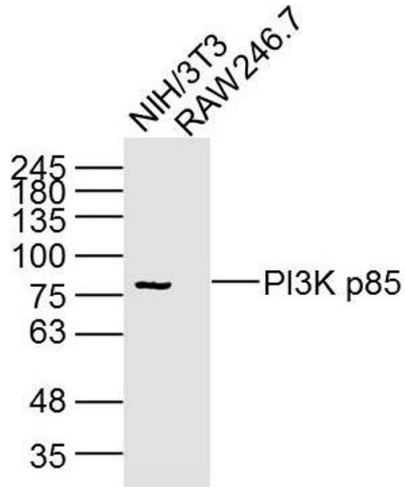
| | |
|---|---|
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. |
| Expiry Date: | 12 months |

## Images




**Western Blotting**

**Image 1.** BRL-3A cell lysates probed with PI3K p85 (5C11) Monoclonal Antibody, unconjugated (bsm-33219M) at 1:300 overnight at 4°C followed by a conjugated secondary antibody for 60 minutes at 37°C.




**Western Blotting**

**Image 2.** Lane 1: NIH/3T3 Cell lysates; Lane 2: RAW246.7 Cell lysates; probed with PI3K p85 (5C11) Monoclonal Antibody, unconjugated (bsm-33219M) at 1:300 overnight at 4°C followed by a conjugated secondary antibody for 60 minutes at 37°C.