

Basic Information

Product Name	Anti-PIK3R1 Antibody
Gene Name	PIK3R1
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS , 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human PI 3 Kinase p85 alpha(65-80aa ERGDFPGTYVEYIGRK), identical to the related rat and mouse sequences.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	85KD
Dilution Ratios	Western blot(WB):1:500-2000

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

Phosphatidylinositol 3-kinase regulatory subunit alpha is an enzyme that in humans is encoded by the PIK3R1 gene. Its gene is mapped to 5q13. the bovine PI3K p85 subunit consists of 2 closely related proteins, p85-alpha and p85-beta. They cloned cDNAs encoding both p85 subunits, each of which is a 724-amino acid polypeptide. 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.

Reference

Anti-PIK3R1 Antibody被引用在1文献中。

Selected Validation Data

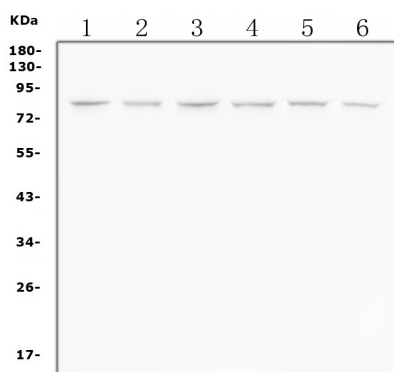


Figure 2. Western blot analysis of PI 3 Kinase p85 alpha using anti-PI 3 Kinase p85 alpha antibody (BA1352-2).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: rat brain tissue lysates

Lane 2: rat lung tissue lysates

Lane 3: rat PC-12 whole cell lysates

Lane 4: mouse brain tissue lysates

Lane 5: mouse HEPA1-6 whole cell lysates

Lane 6: mouse RAW246.7 whole cell lysates

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PI 3 Kinase p85 alpha antigen affinity purified polyclonal antibody (Catalog # BA1352-2) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for PI 3 Kinase p85 alpha at approximately 85KD. The expected band size for PI 3 Kinase p85 alpha is at 85KD.