

Basic Information

Product Name	Anti-PIK3R1 Antibody	
Gene Name	PIK3R1	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, FCM, ELISA	
Contents	500 ug/ml antibody with PBS , 0.02% NaN ₃ , 1 mg BSA and 50% glycerol.	
Immunogen	E.coli-derived human PI 3 Kinase p85 alpha/PIK3R1 recombinant protein (Position: D117-Q153).	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	85KD	
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow cytometry (FCM): 1-3μg/1×10 ⁶ cells ELISA: 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

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.

Selected Validation Data

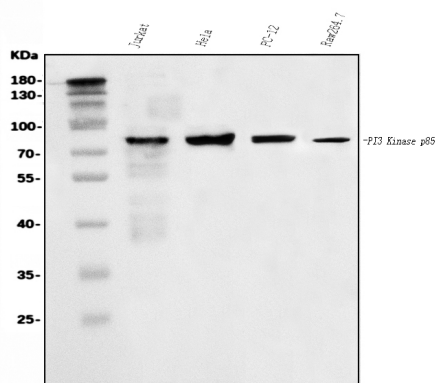


Figure 1. Western blot analysis of anti- PIK3R1 Antibody (A00318-1).

The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: Jurkat whole cell lysates,

Lane 2: Hela whole cell lysates,

Lane 3: PC-12 whole cell lysates,

Lane 4: Raw264.7 whole cell lysates.

Use rabbit anti- PIK3R1 1:1000, probed with a goat anti- rabbit IgG- HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for PIK3R1 at approximately 85KD. The expected band size for PIK3R1 is at 84KD.