

Anti-PKB Alpha Akt1 Antibody (Monoclonal, PKB-175)

Catalog Number: MA1085

About Akt1

PKB alpha also known as V-AKT murine thymoma viral oncogene homolog 1 (ATK1). AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and is abrogated by mutations in the pleckstrin homology domain of AKT1. AKT1 gene is mapped to chromosome 14q32.3. Akt1/protein kinase B-alpha is critical for ischemic and VEGF-mediated angiogenesis. Akt1 regulates pathological angiogenesis, vascular maturation and permeability in vivo.

Overview

Product Name	Anti-PKB Alpha Akt1 Antibody (Monoclonal, PKB-175)
Reactive Species	Chicken, Human, Mouse, Rat
Description	Boster Bio Anti-PKB Alpha Akt1 Antibody (Monoclonal, PKB-175) catalog # MA1085. Tested in WB applications. This antibody reacts with Chicken, Human, Mouse, Rat.
Application	WB
Clonality	Monoclonal PKB-175
Formulation	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	P47196

Technical Details

Immunogen	Synthetic peptide corresponding to amino acids 461-477 of human PKB alpha/Akt1, conjugated to KLH.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Mouse IgG1
Form	Lyophilized
Concentration	Adding 1 ml of PBS buffer will yield a concentration of 100 ug/ml.

Purification	Ascites
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.25-0.5ug/ml, Human, mouse, rat, chicken

Anti-PKB Alpha Akt1 Antibody (Monoclonal, PKB-175) (MA1085) Images

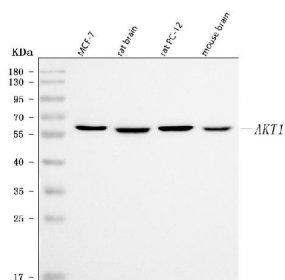


Figure 1. Western blot analysis of PKB alpha using anti-PKB alpha antibody (MA1085).

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 30 ug of sample under reducing conditions.

Lane 1: human MCF-7 whole cell lysates,

Lane 2: rat brain tissue lysates,

Lane 3: rat PC-12 whole cell lysates,

Lane 4: mouse brain tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-PKB alpha antigen affinity purified monoclonal antibody (Catalog # MA1085) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse 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 # EK1001) with Tanon 5200 system. A specific band was detected for PKB alpha at approximately 60 kDa. The expected band size for PKB alpha is at 56 kDa.

16 Publications Citing This Product

1. PubMed ID: 29044143, Li R, Cui K, Liu K, Li H, Zhang Y, Liu X, Chen R, Li M, Wang T, Wang S, Liu J, Rao K. Sci Rep. 2017 Oct 18;7(1):13464. doi: 10.1038/s41598-017-12907-1. Metabolic syndrome in rats is associated with erectile dysfunction by impairing PI3K/Akt/eNOS a...
2. PubMed ID: 27456341, Hyperthermia induced HIF-1a expression of lung cancer through AKT and ERK signaling pathways
3. PubMed ID: 25695729, Wan J, Che Y, Kang N, Wu W. Mol Med Rep. 2015 Jul;12(1):83-92. Doi: 10.3892/Mmr.2015.3368. Epub 2015 Feb 17. Socs3 Blocks Hif-1?? Expression To Inhibit Proliferation And Angiogenesis Of Human Small Cell Lung Cancer By Downregulating Activation Of ...

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