

Basic Information

Product Name	Anti-AKT1 (Phospho-S124) Antibody
Gene Name	AKT1
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Immunogen	A synthesized peptide derived from human AKT1
concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	56-60KD
Dilution Ratios	Western blot (WB):1:400-800

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

RAC-alpha serine/threonine-protein kinase is an enzyme that in humans is encoded by the AKT1 gene. The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating the serine/threonine kinase AKT1, which then phosphorylates and inactivates components of the apoptotic machinery. Mutations in this gene have been associated with the Proteus syndrome. Multiple alternatively spliced transcript variants have been found for this gene.

Selected Validation Data

Product datasheet

Anti-AKT1 (Phospho-S124) Antibody

Catalog Number: **BM4762**

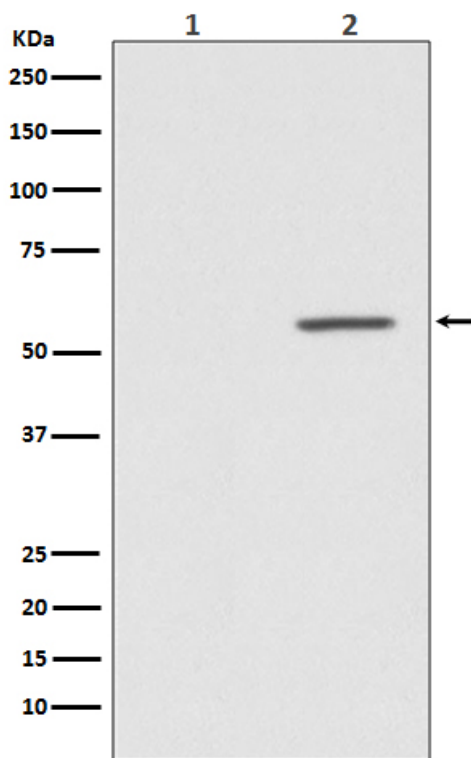
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Western blot analysis of Phospho-AKT1 (S124) expression in (1) MCF-7 cell treated with Alkaline Phosphatase lysate; (2) MCF-7 cell lysate.