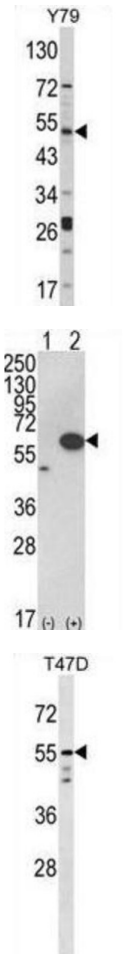
# RAC-Alpha Serine/threonine-Protein Kinase (AKT1) Antibody

Catalogue No.:abx033126






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.

| | |
|---|---|
| **Target:** | RAC-Alpha Serine/threonine-Protein Kinase (AKT1) |
| **Clonality:** | Polyclonal |
| **Reactivity:** | Human |
| **Tested Applications:** | ELISA, WB, FCM |
| **Host:** | Rabbit |


Abbexa LTD, Cambridge, UK · Phone: +44 (0) 1223 755950 · Fax: +44 (0) 1223 755951
Abbexa LLC, Houston, TX USA · Phone: +1 832 327 7413
Abbexa BV, Leiden, NL
Website: www.abbexa.com · Email: info@abbexa.com

| | |
|---|---|
| **Recommended dilutions:** | WB: 1/1000, FCM: 1/10 - 1/50. Optimal dilutions/concentrations should be determined by the end user. |
| **Conjugation:** | Unconjugated |
| **Immunogen:** | KLH-conjugated synthetic peptide between 438-468 amino acids from the C-terminal region of human AKT1. |
| **Isotype:** | IgG |
| **Form:** | Liquid |
| **Purification:** | Purified through a protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS. |
| **Storage:** | Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles. |
| **UniProt Primary AC:** | P31749 (UniProt, ExPASy) |
| **NCBI Accession:** | NP_001014431.1, NP_001014432.1, NP_005154.2 |
| **KEGG:** | hsa:207 |
| **String:** | 9606.ENSP00000451828 |
| **Molecular Weight:** | Calculated MW: 55.7 kDa |
| **Buffer:** | PBS containing 0.09% sodium azide. |
| **Specificity:** | Predicted to react with Mouse and Rat AKT1. |
| **Note:** | THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION. |




Abbexa LTD, Cambridge, UK · Phone: +44 (0) 1223 755950 · Fax: +44 (0) 1223 755951
Abbexa LLC, Houston, TX USA · Phone: +1 832 327 7413
Abbexa BV, Leiden, NL
Website: www.abbexa.com · Email: info@abbexa.com