

## Mouse AKT3 Monoclonal Antibody | anti-AKT3 antibody

AKT3 (RAC-gamma Serine/Threonine-protein Kinase, Protein Kinase Akt-3, Protein Kinase B gamma, PKB gamma, RAC-PK-gamma, STK-2, PKBG) (Biotin)

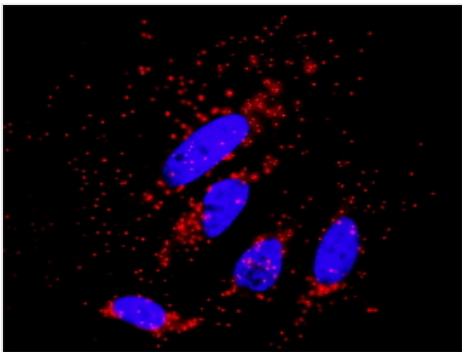
|                              |                      |                                        |                                            |
|------------------------------|----------------------|----------------------------------------|--------------------------------------------|
| CATALOG #<br><b>AAA24724</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>ELISA, Western Blot</b> |
|------------------------------|----------------------|----------------------------------------|--------------------------------------------|

### PRODUCT SYNONYMS

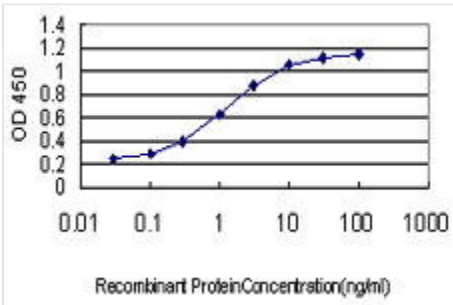
AKT3; Monoclonal Antibody; AKT3 (RAC-gamma Serine/Threonine-protein Kinase; Protein Kinase Akt-3; Protein Kinase B gamma; PKB gamma; RAC-PK-gamma; STK-2; PKBG) (Biotin); anti-AKT3 antibody

### PRODUCT SPECIFICATIONS

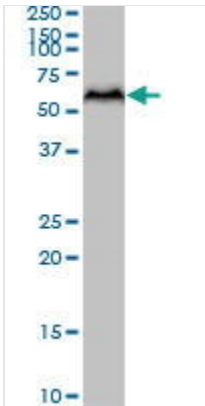
|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Isotype                                        | IgG2a,k                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Clone Number                                   | 6E11                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Specificity                                    | Recognizes human AKT3. Species Crossreactivity: mouse and rat.                                                                                                                                                                                                                                                                                                                                                                                          |
| Purity/Purification                            | Purified by Protein A Affinity Chromatography.                                                                                                                                                                                                                                                                                                                                                                                                          |
| Form/Format                                    | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.                                                                                                                                                                                                                                                                                                                                                                        |
| Sequence Length                                | 1708                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Applicable Applications for anti-AKT3 antibody | ELISA, WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Application Notes                              | Applications are based on unconjugated antibody.                                                                                                                                                                                                                                                                                                                                                                                                        |
| Immunogen                                      | Partial recombinant corresponding to aa100-189 from AKT3 (AAD29089) with GST tag. MW of the GST tag alone is 26kD.                                                                                                                                                                                                                                                                                                                                      |
| Immunogen Sequence                             | EAIQAVADRLQRQEEERMNCSPTSQIDNIGEEEMDASTTHHKRKTMNDFDYLKLLGKGTFGKVILVREKASGKYYAMKILKKEVIAKDE                                                                                                                                                                                                                                                                                                                                                               |
| Conjugate                                      | Biotin                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Preparation and Storage                        | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |



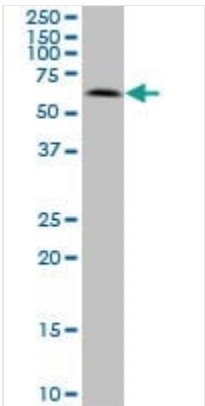
**Application Data**  
Proximity Ligation Analysis of protein-protein interactions between PRKCZ and AKT3. HeLa cells were stained with anti-PRKCZ rabbit purified polyclonal 1:1200 and anti-AKT3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



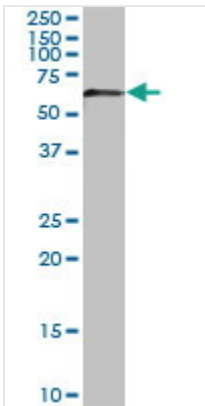
**Application Data**  
Detection limit for recombinant GST tagged AKT3 is ~0.03ng/ml as a capture antibody.



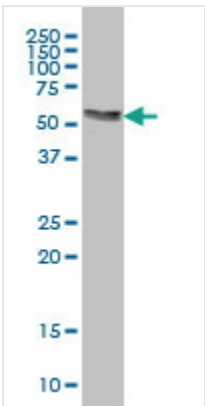
**WB (Western Blot)**  
AKT3 monoclonal antibody Western Blot analysis of AKT3 expression in MCF-7.



**WB (Western Blot)**  
AKT3 monoclonal antibody Western Blot analysis of AKT3 expression in Raw 264.7.



**WB (Western Blot)**  
AKT3 monoclonal antibody Western Blot analysis of AKT3 expression in PC-12.



**WB (Western Blot)**  
AKT3 monoclonal antibody Western Blot analysis of AKT3 expression in HeLa.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-AKT3 antibody | AIK3 is a member of the AKT, also called PKB, serine/threonine protein kinase family. AKT kinases are known to be regulators of cell signaling in response to insulin and growth factors. They are involved in a wide variety of biological processes including cell proliferation, differentiation, apoptosis, tumorigenesis, as well as glycogen synthesis and glucose uptake. This kinase has been shown to be stimulated by platelet-derived growth factor (PDGF), insulin, and insulin-like growth factor 1 (IGF1). |
| Product Categories/Family for anti-AKT3 antibody   | Antibodies; Protein Kinases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                     |
|----------------------------------|---------------------------------------------------------------------|
| NCBI GI #                        | 4757578                                                             |
| NCBI GeneID                      | 10000                                                               |
| UniProt Accession #              | Q9Y243                                                              |
| NCBI Official Full Name          | Homo sapiens protein kinase B gamma mRNA, complete cds              |
| NCBI Official Synonym Full Names | AKT serine/threonine kinase 3                                       |
| NCBI Official Symbol             | AKT3                                                                |
| NCBI Official Synonym Symbols    | MPPH; PKBG; MPPH2; PRKBG; STK-2; PKB-GAMMA; RAC-gamma; RAC-PK-gamma |
| NCBI Protein Information         | RAC-gamma serine/threonine-protein kinase                           |
| UniProt Protein Name             | RAC-gamma serine/threonine-protein kinase                           |
| UniProt Gene Name                | <b>AKT3</b>                                                         |
| UniProt Synonym Gene Names       | PKBG; PKB gamma                                                     |
| UniProt Entry Name               | AKT3_HUMAN                                                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/akt3-antibody-clone-6e11-western-blot-elisa/24724>