

## DESCRIPTION

|                           |  |
|---------------------------|--|
| <b>Species Reactivity</b> | Human  |
| <b>Specificity</b>        | Detects human Akt3 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) Akt1 or rhAkt2 is observed.   |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2A</sub> Clone # 199822  |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human Akt3<br>Arg23-Ala101<br>Accession # NP_005456  |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm  |
| <b>Formulation</b>        | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

|  | Recommended Concentration       | Sample   |
|--|---------------------------------|--|
| Intracellular Staining by Flow Cytometry | 0.25-1 µg/10 <sup>6</sup> cells | MCF-7 human breast cancer cell line fixed with paraformaldehyde and permeabilized with saponin |

## PREPARATION AND STORAGE

|                                |  |
|--------------------------------|--|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.                                  |
| <b>Stability &amp; Storage</b> | <b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul> |

## BACKGROUND

Akt3 (v-akt murine thymoma viral oncogene homolog 3), also known as protein kinase B gamma (PKBγ) and RAC-gamma serine/threonine kinase (RAC-PK-γ), is a member of the Akt family that also includes Akt1 (PKBα) and Akt2 (PKBβ). These highly homologous kinases are central in such diverse cellular processes as glucose uptake, cell cycle progression, and apoptosis. All three Akts contain an amino-terminal pleckstrin homology domain, a central kinase domain, and a carboxyl-terminal regulatory domain.

## PRODUCT SPECIFIC NOTICES

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