

# **Human Akt2 Antibody**

Monoclonal Mouse IgG<sub>1</sub> Clone # 302501 Catalog Number: MAB23152

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Akt2. Using direct ELISA, this antibody does not detect recombinant human (rh) Akt1 or rhAkt3.		
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 302501		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human Akt2 Asn2-Glu481 Accession # P31751		
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.		

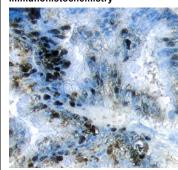
#### APPLICATIONS

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.

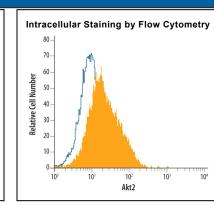
	Recommended Concentration	Sample
Immunohistochemistry	8-25 μg/mL	See Below
Intracellular Staining by Flow Cytometry	2.5 μg/10 <sup>6</sup> cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

#### DATA

# Immunohistochemistry



Akt2 in Human Pancreatic Cancer Tissue. Akt2 was detected in immersion fixed paraffin-embedded sections of human pancreatic cancer tissue using 25 μg/mL Mouse Anti-Human Akt2 Monoclonal Antibody (Catalog # MAB23152) overnight at 4 °C. Tissue was stained with the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific labeling was localized to the cytoplasm in epithelial cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.



Detection of Akt2 in MCF-7
Human Cell Line by Flow
Cytometry. MCF-7 human breast
cancer cell line was stained with
Mouse Anti-Human Akt2 Monoclonal
Antibody (Catalog # MAB23152, filled
histogram) or isotype control antibody
(Catalog # MAB002, open
histogram), followed by
Phycoerythrin-conjugated AntiMouse IgG F(ab')<sub>2</sub> Secondary
Antibody (Catalog # F0102B). To
facilitate intracellular staining, cells
were fixed with paraformaldehyde and
permeabilized with saponin.

## PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

### BACKGROUND

The serine/threonine kinase Akt, also known as protein kinase B (PKB), is a central regulator of such diverse cellular processes as glucose uptake, cell cycle progression, and apoptosis. In mammals, three highly homologous members define the Akt family: Akt1 (PKBα), Akt2 (PKBβ), and Akt3 (PKBγ). Akt2 is expressed predominantly in insulin target tissues such as liver, skeletal muscle, and fat.

Rev. 2/7/2018 Page 1 of 1

