

Human/Mouse/Rat Akt2 Antibody

Monoclonal Mouse IgG₃ Clone # 302514 Catalog Number: MAB2315

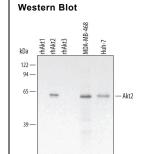
DESCRIPTION		
Species Reactivity	Human/Mouse/Rat	
Specificity	Detects human, mouse, and rat Akt2. Detects human Akt2 in direct ELISAs and endogenous Akt2 in Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) Akt1 or rhAkt3 is observed.	
Source	Monoclonal Mouse IgG ₃ Clone # 302514	
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
Western Blot	2 μg/mL	See Below

DATA



Detection of Human/Mouse/Rat Akt2 by Western Blot. Western blot shows lysates of MDA-MB-468 human breast cancer cell line and Huh-7 human hepatoma cell line. PVDF membrane was probed with 2 µg/mL Mouse Anti-Human/Mouse/Rat Akt2 Monoclonal Antibody (Catalog # MAB2315) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). For additional reference, Recombinant Human Active Akt1 (Catalog # 1775-KS), recombinant human Akt2, and recombinant human Akt3 (2 ng/lane) were included. A specific band for Akt2 was detected at approximately 60 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

PREPARATION AND STORAGE

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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.

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