

Datasheet for KCAE71**AKT2 Western Chemiluminescent Blotting Kit****Overview**

Description:	AKT2 Western Blot Kit - KCAE71
Item No.:	KCAE71
Size:	1 Kit
Applications:	WB
Reactivity:	Human
Host Species:	Rat

Product Details

Background:	Rockland Immunochemicals' Chemiluminescent Western Blot Kit for AKT2 combines all of the necessary reagents with a rapid proven protocol and the extremely high signal detection of our luminol chemiluminescent substrate for the detection of native and/or recombinant human AKT2 protein. AKT2 Western Blotting kit allows for the detection of endogenous protein levels of human AKT2 present in cell lysates provided by the user. As a positive control, this kit includes a MDA-MB468 whole cell lysate proven to contain AKT2. After protein separation by SDS-PAGE and transfer, the membrane is probed with Rockland's optimized Anti-AKT2 antibody. Detection of the membrane bound antibody-antigen complex is achieved by the addition of a secondary antibody conjugated to the enzyme horseradish peroxidase. The enzyme reacts with a specialized formulation of luminol, an extremely sensitive, non-radioactive substrate that emits light and allows visualization using X-ray film or other imaging methods, including highly sensitive CCD cameras and imaging systems. AKT2 Western Blotting is ideal for investigators involved in Cell Signaling, Cancer, Neuroscience and Signal Transduction research.
Synonyms:	AKT 2 western blotting, AKT-2, AKT 2 antibody, AKT-2, PKB antibody, PKB beta antibody, PKBBETA antibody, PRKBB antibody, Protein kinase Akt 2 antibody, Protein kinase B beta antibody, RAC-beta serine/threonine-protein kinase, RAC-PK-beta, western blotting kit, Chemiluminescent WB, Western Blotting Kit, Chemiluminescent Kit, Peroxidase Kit, Immunoblotting Kit
Host Species:	Rat
Clonality:	Monoclonal
Clone ID:	16G11.E8
Format:	IgG2a

Detection Kit Type: Chemiluminescent Western Blot Kit

Target Details

Gene Name:	AKT2
Reactivity:	Human
Purity/Specificity:	The kit is designed to detect both unphosphorylated and phosphorylated forms of the protein. Cross reactivity with AKT2 from other species has not been determined, however, the sequence of the immunogen shows 100% identity to human, mouse, and rat, therefore, cross reactivity is expected. Cross-reactivity with AKT1 and AKT3 has not been determined. This kit contains sufficient substrate for up to 5 mini blots at 7.5 x 8 cm ² (1,800 cm ²) and is stable for at least 1 year when stored as indicated.
Relevant Links:	• UniProtKB - P31751 • AKT2 Chemiluminescent WB Kit Protocol

Application Details

Tested Applications:	WB
Application Note:	Use Rockland Immunochemicals' Anti-AKT2 Chemiluminescent Kit for Western Blotting for detection of human AKT2 native and recombinant proteins by western blot. Expect a band approximately 56 kDa in size corresponding to AKT2 protein. This kit is useful for both western blotting and dot blotting methods. Please read the entire product insert prior to use.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

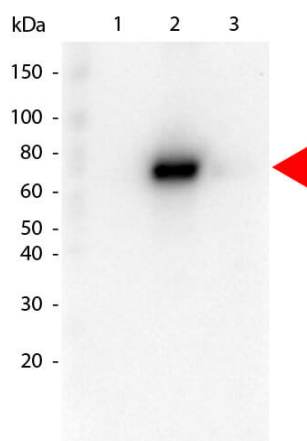
Physical State:	n/a
Preservative:	Wash buffers MUST NOT contain SODIUM AZIDE or other inhibitors of peroxidase activity!
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	See kit insert for complete instructions.

Expiration: See kit insert for complete instructions.

Images



Western Blot

Western Blot of AKT isoform specific antibodies: 50 ng of recombinant GST-AKT1, -AKT2 and -AKT3 proteins were separated by SDS PAGE (4-20% gel) and transferred onto 0.2 μ m nitrocellulose. Lane 1: GST Tagged recombinant AKT1. Lane 2: GST Tagged recombinant AKT2. Lane 3: GST Tagged recombinant AKT3. The membrane was blocked with Blocking Buffer (p/n MB-070) for 1 h at room temperature. Mouse anti-AKT1 (p/n 200-501-E71) at a dilution of 1 μ g/mL in Blocking Buffer and incubated for 16 h at 4°C. Goat anti-Rat IgG HRP (p/n 612-103-120) secondary antibodies were applied at 0.05 μ g/mL in Blocking Buffer and incubated for 1 h at room temperature followed by detection with FemtoMax™ chemiluminescent reagent (p/n FEMTOMAX-110). Predicted/Observed size: The expected size for all recombinant GST-AKT isoforms is 85 kDa. Arrowheads indicate the position of AKT isoform.

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