Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 000-001-E71

AKT2 Control Peptide

Overview

Description:	AKT2 Control Peptide - 000-001-E71
Item No.:	000-001-E71
Size:	50 µg
Applications:	WB
Origin:	Human

Product Details

Background:	AKT2 Control peptide is for use in control assays with Anti-AKT2 (p/n 200-501-E71). AKT2 Antibody detects AKT2 which is a component of the PI-3 kinase pathway and is activated by phosphorylation at Ser 473 and Thr 308. AKT is a cytoplasmic protein also known as Protein Kinase B (PKB) and rac (related to A and C kinases). AKT is a key regulator of many signal transduction pathways. AKT Exhibits tight control over cell proliferation and cell viability. Overexpression or inappropriate activation of AKT is noted in many types of cancer. AKT mediates many of the downstream events of PI 3-kinase (a lipid kinase activated by growth factors, cytokines and insulin). PI 3-kinase recruits AKT to the membrane, where it is activated by PDK1 phosphorylation. Once phosphorylated, AKT dissociates from the membrane and phosphorylates targets in the cytoplasm and the cell nucleus. AKT has two main roles: (i) inhibition of apoptosis; (ii) promotion of proliferation.
Synonyms:	AKT 2, AKT-2, PKB, PKB beta, PKBBETA PRKBB, Protein kinase Akt 2, Protein kinase B beta, RAC-beta serine/threonine-protein kinase, RAC-PK-beta, blocking peptide
Species of Origin:	Human
Type:	Peptide

Target Details

Gene Name:	AKT2
Purity/Specificity:	Purity was determined to be greater than 98% by analysis by RP-HPLC and by reducing and non-reducing SDS-PAGE.
Relevant Links:	• UniProtKB - P31751 • NCBI - P31751

- GeneID - 208

Application Details

Tested Applications:	WB
Application Note:	AKT2 Control peptide has been tested in western blot and is suitable as a control for polyclonal or monoclonal Anti-AKT2 in immunological assays.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	None
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	50µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 2-8 °C prior to opening. Aliquot contents and freeze at -20 °C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Dilute only prior to immediate use.
Expiration:	Expiration date is six (6) months from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.