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Datasheet for 000-000-260

AKT/PKBa Substrate

Overview

Description:	Substrate Peptide AKT/PKBa - 000-000-260
Item No.:	000-000-260
Size:	500 µg

Product Details

Background:	Akt is a serine/threonine kinase that enhances cell proliferation and inhibits apoptosis when activated. Akt associates with PI(3,4,5)P3) at the cell membrane through its pleckstrin homology domain and is activated through phosphorylation. 3-Phosphoinositide-dependent kinase-1 (PDK1) has been shown to first phosphorylate Akt at Thr308, then a second kinase phosphorylates Akt at position Ser473. In turn, Akt phosphorylates a host of proteins including the proapoptotic proteins BAD and pro-caspase-9, GSK3, p21WAF1, MDM2, and the forkhead (FKHR) family of transcription factors.
Synonyms:	AKT1, serine/threonine kinase, apoptosis inhibitor substrate peptides, blocking peptide, control peptide
Type:	Peptide

Target Details

Gene Name:	AKT1
Purity/Specificity:	Greater than 98% specific peptide by HPLC analysis

Application Details

Application Note:	AKT/PKBa Substrate control peptide should be used at 1.0 µg per 1.0 µl of antiserum in per assay.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1:500 - 1:2,000

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Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by dry weight
Buffer:	None
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	500 µL
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.

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