

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

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

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