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Datasheet for 000-000-401

# AKT Peptide

## Overview

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| **Description:** | AKT Peptide - 000-000-401 |
| **Item No.:** | 000-000-401 |
| **Size:** | 50 µg |
| **Origin:** | Human |

## Product Details

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| **Background:** | Non-specific binding of an antibody to proteins other than the antigen can sometimes occur. This is usually more common with polyclonal antibodies, but can also occur with monoclonals as well. To determine which band or staining is specific, the AKT immunizing peptide blocking experiment can be performed. Prior to the staining protocol, the anti-AKT antibody is neutralized (incubated with an excess of peptide that corresponds to the epitope recognized by the antibody). The AKT antibody that is bound to the blocking peptide is no longer available to bind to the epitope present in the protein on the Western blot or in the cell. The neutralized antibody is then used side-by-side with the antibody alone, and the results are compared. By comparing the staining from the blocked antibody versus the antibody alone, you can see which staining is specific: this staining will be absent from the Western blot or immunostaining performed with the neutralized antibody. |
| **Synonyms:** | control peptide, blocking peptide, RAC-PK-alpha, Protein kinase B, PKB, C-AKT, RAC-alpha serine/threonine-protein kinase, Proto-oncogene c-Akt, AKT1, AKT Serine/Threonine Kinase 1, AKT 1 Antibody, AKT-1. |
| **Species of Origin:** | Human |
| **Type:** | Peptide |

## Target Details

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| **Purity/Specificity:** | Greater than 95% specific peptide |

## Application Details

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| **Application Note:** | Akt blocking peptide should be used at 1.0 µg per 1.0 µl of antiserum in per assay. |

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| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |

## Formulation

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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 1.0 mg/mL by dry weight |
| **Buffer:** | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| **Preservative:** | 0.01% (w/v) Sodium Azide |
| **Stabilizer:** | None |

## Shipping & Handling

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| **Shipping Condition:** | Dry Ice |
| **Storage Condition:** | Store vial at -20° 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. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| **Expiration:** | Expiration date is six (6) months from date of receipt. |

## Disclaimer

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