

## Recombinant Human AKT1 Protein, His-tagged, Alexa Fluor 647 conjugated

**Cat. No.** AKT1-786HAF647    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Alexa Fluor 647 conjugated recombinant human AKT1 (NP_001014431.1) (Met 1-Ala 480), fused with a polyhistidine tag at the C-terminus, was produced in Baculovirus-Insect cells. |
| <b>Species</b>          | Human                                                                                                                                                                           |
| <b>Source</b>           | Insect Cells                                                                                                                                                                    |
| <b>ProteinLength</b>    | 491                                                                                                                                                                             |
| <b>Form</b>             | Lyophilized                                                                                                                                                                     |
| <b>Molecular Mass</b>   | The recombinant human AKT1 consists of 491 amino acids and migrates as an approximately 57 kDa band as predicted in SDS-PAGE under reducing conditions.                         |
| <b>Endotoxin</b>        | < 1.0 EU/ µg of the protein as determined by the LAL method.                                                                                                                    |
| <b>Characteristic</b>   | Disulfide-linked homodimer<br>Labeled with Alexa Fluor 647 via amines<br>Excitation = 650 nm<br>Emission = 668 nm                                                               |
| <b>Stability</b>        | Samples are stable for up to 12 months from date of receipt at -70 centigrade.                                                                                                  |

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|                       |                                                                                                                                                                           |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>        | Store it under sterile conditions at -20 to -70 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.       |
| <b>Storage Buffer</b> | Lyophilized from sterile 50 mM Tris, 100 mM NaCl, 3 mM DTT, 0.5 mM PMSF, 5% Glycerol, pH 8.0                                                                              |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution. Centrifuge the vial at 4 centigrade before opening to recover the entire contents. |
| <b>Conjugation</b>    | Alexa Fluor 647                                                                                                                                                           |

## GENE INFORMATION

|                        |                                                                     |
|------------------------|---------------------------------------------------------------------|
| <b>Gene Name</b>       | AKT1 v-akt murine thymoma viral oncogene homolog 1 [ Homo sapiens ] |
| <b>Official Symbol</b> | AKT1                                                                |
| <b>Gene ID</b>         | 207                                                                 |
| <b>mRNA Refseq</b>     | NM_001014431                                                        |
| <b>Protein Refseq</b>  | NP_001014431                                                        |
| <b>MIM</b>             | 164730                                                              |
| <b>UniProt ID</b>      | P31749                                                              |

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