

Datasheet for ABIN5624572

AKT3 Protein**3** Images[Go to Product page](#)

Overview

Quantity:	10 µg
Target:	AKT3
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Application:	Western Blotting (WB)

Product Details

Purification: Recombinant protein corresponds to amino acids 1 to 481 of mature human AKT3, Akt isoform 3. The recombinant protein contains a polyhistidine affinity tag at the amino terminus. This protein was co-expressed with the p110 kinase domain leading to phosphorylation of key residues T308 and S473. Purity is greater than 90% as determined by reducing and non-reducing SDS-PAGE and by analytical HPLC.

Target Details

Target:	AKT3
Alternative Name:	AKT3 Protein (AKT3 Products)
Gene ID:	10000
UniProt:	Q9Y243
Pathways:	PI3K-Akt Signaling , RTK Signaling , TLR Signaling , Hepatitis C , VEGF Signaling

Application Details

Application Notes: Application Note: AKT3 is suitable as a control for polyclonal or monoclonal anti-AKT3 in immunological assays. Akt3 recombinant protein is expected to be phosphorylated and in an active state. It is well suited as a control for anti-AKT pT308 which detects phosphorylated T308 residue, and anti-AKT pS473, that detects phosphorylated S473. For western blot use at 50 ng or less. For other assays concentration is user optimized.

Western Blot Dilution: 50 ng

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.03 mg/mL

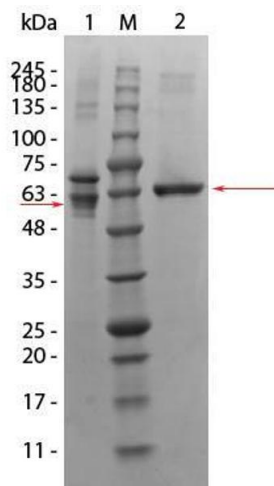
Buffer: Buffer: 20 mM Tris pH 8, 300 mM NaCl with 10 % glycerol
Stabilizer: 10 % (v/v) Glycerol

Preservative: Without preservative

Storage: -20 °C

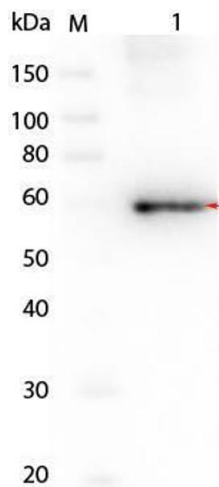
Storage Comment: Store vial at -70° C prior to use. Thaw only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. For long term storage we recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL) . For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.

Expiry Date: 12 months



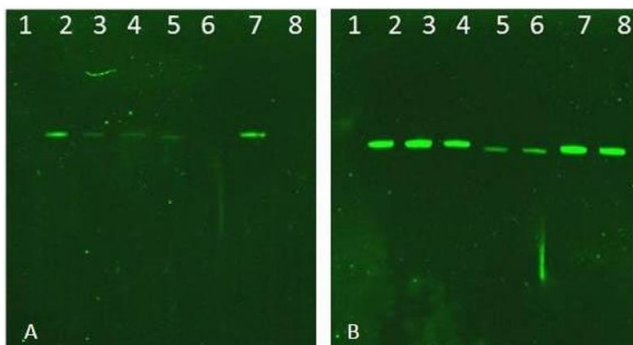
SDS-PAGE

Image 1. SDS-PAGE of AKT3 Human Recombinant Protein. Lane 1: AKT3, unreduced. Lane 2: prestained MW markers. Lane 3: AKT3, reduced. Load: 1 µg per lane. Predicted/Observed size: 56 kDa, ~56 kDa for AKT3. Other band(s): unreduced band at 65 kDa is alternate fold for AKT3.



Western Blotting

Image 2. Western Blot of AKT3 Human Recombinant Protein Lane 1: SuperSignal MW markers. Lane 2: AKT3. Load: 50 ng per lane. Primary antibody: AKT3 antibody at 1:1,000 overnight at 4°C. Secondary antibody: Peroxidase mouse secondary antibody at 1:20,000 for 1 hour at room temperature. Block: Blocking Buffer for Fluorescent Western Blotting (ABIN925618), 1 hour at room temperature. Predicted/Observed size: 56kDa, 56kDa for AKT3. Other band(s): none.



Western Blotting

Image 3. Western Blot of Rabbit AKT Antibodies. Lane 1: NIR MW protein ladder. Lane 2: AKT1, recombinant: 009-001-P21. Lane 3: AKT1, phosphatase-treated: 009-001-I51. Lane 4: AKT1, mutant T308A/S473A: 009-001-P22. Lane 5: AKT2, recombinant: 009-001-P23. Lane 6: AKT2, phosphatase-treated: 009-001-E71. Lane 7: AKT3, recombinant: . Lane 8: AKT3, phosphatase-treated: 009-001-E75. Load: 50ng per lane. Blot A: 600-401-269 Anti-Akt pT308 used at 1:2270, Blot B: 100-401-401 Anti-Akt used 1:1000.