

Datasheet for ABIN5624570

AKT2 Protein**3** Images[Go to Product page](#)

Overview

Quantity:	10 µg
Target:	AKT2
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 479 of mature human AKT2, Akt isoform 2. 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:	AKT2
Alternative Name:	AKT2 (AKT2 Products)
Gene ID:	208
UniProt:	P31751
Pathways:	PI3K-Akt Signaling , RTK Signaling , AMPK Signaling , TLR Signaling , Cellular Glucan Metabolic Process , Regulation of Carbohydrate Metabolic Process , Hepatitis C , VEGF Signaling

Application Details

Application Notes: Application Note: AKT2 is suitable as a control for polyclonal or monoclonal anti-AKT2 in immunological assays. Akt2 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: 1.09 mg/mL

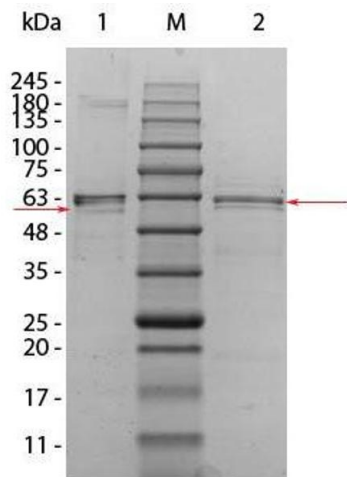
Buffer: Buffer: 20 mM Tris pH 8, 300 mM NaCl with 10 % glycerol
Stabilizer: 10 % (v/v) Glycerol

Preservative: Without preservative

Storage: -20 °C

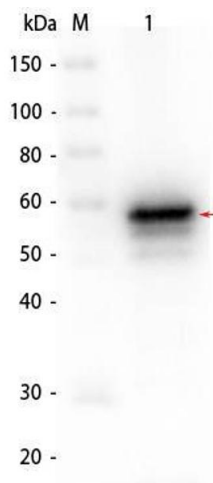
Storage Comment: Store vial at -70° C prior to use. Thaw only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. For long term storage we recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL) . For best results aliquot contents 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



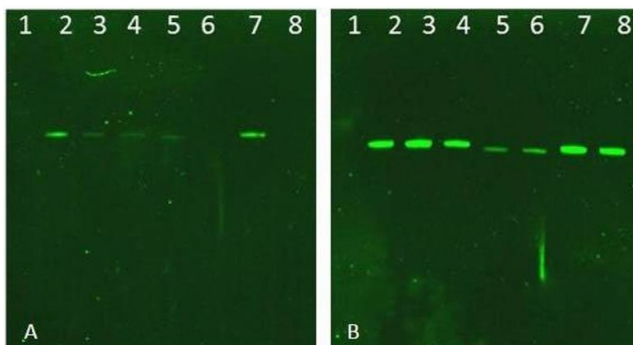
SDS-PAGE

Image 1. SDS-PAGE of AKT2 Human Recombinant Protein. Lane 1: AKT2, unreduced. Lane 2: prestained MW markers. Lane 3: AKT2, reduced. Load: 1 µg per lane. Predicted/Observed size: 56 kDa, ~56 kDa for AKT2. Other band(s): None.



Western Blotting

Image 2. Western Blot of AKT2 Human Recombinant Protein Lane 1: SuperSignal MW markers. Lane2: AKT2. Load: 50 ng per lane. Primary antibody: AKT2 antibody at 1:1,000 for 3.5 hours at room temperature. Secondary antibody: Peroxidase rat 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 AKT2. 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: . Lane 6: AKT2, phosphatase-treated: 009-001-E71. Lane 7: AKT3, recombinant: 009-001-P24. 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.