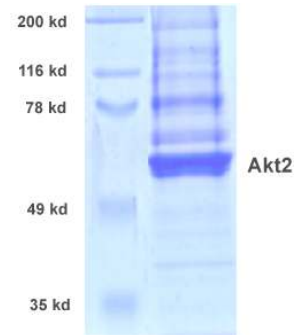


## Active Akt2

<b>CATALOG #:</b>	7702-5	5 µg
	7702-100	100 µg
<b>LOT #:</b>	---	
<b>SOURCE:</b>	Sf 9 cells	
<b>PURITY:</b>	3 µg of Akt2 protein was subjected to SDS-PAGE and Coomassie blue staining. The scan of the gel showed >90% purity of the Akt2 product, and the major band was at ~58 kDa	
<b>SPECIFIC ACTIVITY:</b>	46 nmol/min/mg	
<b>MOLECULAR WEIGHT:</b>	~58 kDa.	
<b>PHYSICAL APPEARANCE:</b>	Recombinant proteins in storage buffer (50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM EGTA, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol).	
<b>STORAGE CONDITIONS:</b>	Store product frozen at or below -70°C. Stable for 1 year at -70°C as undiluted stock. Aliquot to avoid repeated freeze/thaw.	
<b>BACKGROUND DESCRIPTION:</b>	Akt2 or Protein Kinase B β (PKBβ) is a serine/threonine kinase that is a member of the Akt family. Akt2 like the other Akt members is activated in cells in response to diverse stimuli such as hormones, growth factors and extracellular matrix components and is involved in glucose metabolism, transcription, survival, cell proliferation, angiogenesis, and cell motility. The PI3K generates phosphatidylinositol-3, 4, 5-trisphosphate (PIP3), a lipid second messenger essential for the translocation of Akt2 to the plasma membrane where it is phosphorylated and activated by phosphoinositide-dependent kinase-1 (PDK-1) and phosphoinositide-dependent kinase-2. Akt1 has numerous cellular substrates including proteins, which promote the inhibition of apoptosis such as the Forkhead transcription factors and the Bcl-2 family member Bad.	
<b>ACTIVITY:</b>	46 nmol phosphate incorporated into Akt/SGK substrate (RPRAATF) per minute per mg protein at 30°C for 15 minutes using a final concentration of 50 µM ATP and total of 0.83 µCi/µl P-32.	



AKT2 Protein Gel

**RELATED PRODUCTS:**

- Akt activated cell lysate (**Cat. No. 7036-1**)
- Akt Inhibitor (**Cat. No. 1701-1**)
- Akt Inhibitor, Isozyme Selective (**Cat. No. 1708-1**)
- Akt negative control cell lysate (**Cat. No. 7035-1**)
- Active Akt3 (**Cat. No. 7703-5**)

**FOR RESEARCH USE ONLY! Not to be used in humans.**