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# AKT2 Protein (Myc-DYKDDDDK Tag)

2 Images

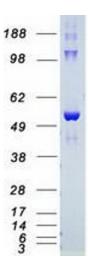


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Overview	
Quantity:	20 μg
Target:	AKT2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This AKT2 protein is labelled with Myc-DYKDDDDK Tag.
Application:	Functional Studies (Func), Antibody Production (AbP), Protein Interaction (PI), Standard (STD)
Product Details	
Specificity:	Optimal preservation of protein structure, post-translational modifications and functions.
Characteristics:	<ul> <li>Recombinant human AKT2 / PKB beta protein expressed in HEK293 cells.</li> <li>Produced with end-sequenced ORF clone</li> <li>Tested for bioactivity.</li> </ul>
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining
Biological Activity Comment:	AKT2 activity verified in a biochemical assay:,AKT2 activity verified in a biochemical assay:
Target Details	
Target:	AKT2
Alternative Name:	Akt2,pkb beta (AKT2 Products)

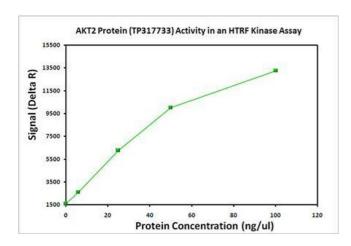
## **Target Details**

rarget Details	
Background:	This gene is a putative oncogene encoding a protein belonging to a subfamily of serine/threonine kinases containing SH2-like (Src homology 2-like) domains. The gene was shown to be amplified and overexpressed in 2 of 8 ovarian carcinoma cell lines and 2 of 15 primary ovarian tumors. Overexpression contributes to the malignant phenotype of a subset of human ductal pancreatic cancers. The encoded protein is a general protein kinase capable of phophorylating several known proteins.
Molecular Weight:	55.6 kDa
NCBI Accession:	NP_001617
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:	Recombinant human proteins can be used for:  Native antigens for optimized antibody production  Positive controls in ELISA and other antibody assays  Protein-protein interaction  In vitro biochemical assays and cell-based functional assays
Comment:	The tag is located at the C-terminal.
Restrictions:	For Research Use only
Handling	
Concentration:	> 50 μg/mL
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.
Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.



### **Western Blotting**

Image 1. Validation with Western Blot



### **Activity Assay**

Image 2. Bioactivity measured with Activity Assay