

Product datasheet for PH317733

AKT2 (NM_001626) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	AKT2 MS Standard C13 and N15-labeled recombinant protein (NP_001617)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC217733
Predicted MW:	55.6 kDa
Protein Sequence:	>RC217733 representing NM_001626 Red=Cloning site Green=Tags(s) MNEVSVIKEGWLHKRGEYIKTWRPRYFLLKSDGSFIGYKERPEAPDQTLPPLNNSVAECQLMKTERPRP NTFVIRCLQWTTVIERTFHVDSPPEREEWMRAIQMVANSLKQRAPGEDPMDYKCGSPSDSSSTTEEMEVAV SKARAKVTMNDFDYLKLLGKGTFRVILVREKATGRYYAMKILRKEVIIAKDEVAHTVTSRVLQNRHP FLTALKYAFQTHDRLCFVMEYANGGELFFHLSRERVFTTEERARFYGAEIVSALEYLHSRDVVYRDIKLEN LMLDKDGHIKITDFGLCKEGISDGATMKTFCGTPEYLAPEVLEDNDYGRAVDWWGLGVVYEMMCGRLPF YNQDHERLFELILMEEIRFPRTL SPEAKSLLAGLLKKDPKQRLGGGSPDAKEVMEHRFFLSINWQDVVQK KLLPPFKPQVTSEVDTRYFDDEFTAQSITITPPDRYDSLGLLELDQRTHFPQFSYASIRE TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_001617</u>
RefSeq Size:	1715
RefSeq ORF:	1443
Synonyms:	HIHGHH; PKBB; PKBBETA; PRKBB; RAC-BETA



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Locus ID: 208

UniProt ID: [P31751](#)

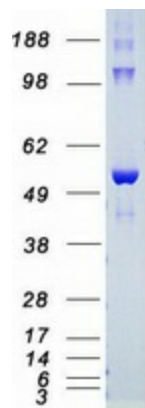
Cytogenetics: 19q13.2

Summary: 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, which is involved in signaling pathways. The gene serves as an oncogene in the tumorigenesis of cancer cells. For example, its overexpression contributes to the malignant phenotype of a subset of human ductal pancreatic cancers. The encoded protein is a general protein kinase capable of phosphorylating several known proteins, and has also been implicated in insulin signaling. [provided by RefSeq, Nov 2019]

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase

Protein Pathways: Acute myeloid leukemia, Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Glioma, Insulin signaling pathway, Jak-STAT signaling pathway, MAPK signaling pathway, Melanoma, mTOR signaling pathway, Neurotrophin signaling pathway, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer, Renal cell carcinoma, Small cell lung cancer, T cell receptor signaling pathway, Tight junction, Toll-like receptor signaling pathway, VEGF signaling pathway

Product images:



Coomassie blue staining of purified AKT2 protein (Cat# [TP317733]). The protein was produced from HEK293T cells transfected with AKT2 cDNA clone (Cat# [RC217733]) using MegaTran 2.0 (Cat# [TT210002]).