

AKT2

Recombinant Human AKT2/Protein Kinase B beta (aa 107-481) Active GST-His

Catalog No.	CSI10913	Quantity:	50 µg
Alternate Names:	PKBB, PKBBETA, PRKBB, RAC-BETA, AKT2 kinase, Murine thymoma viral (v-akt) homolog-2, rac protein kinase beta		
Description:	Human AKT2, Amino acids A ₁₀₇ -E ₄₈₁ (as in GenBank entry NM_001626.2)*, N-terminally fused to GST-HIS ₆ -Thrombin cleavage site *Sequence may contain documented polymorphisms Detailed sequence on request		
Concentration:	0.367 µg/µl		
Gene ID:	208		
Protein Accession No:	NM_001626.2		
Source:	Baculovirus infected Sf9 cells		
Molecular Weight:	Theoretical MW _{Fusion Protein} : 72,844 Da		
Formulation:	50 mM Tris-HCl, pH 8.0 + 100 mM NaCl + 5 mM DTT + 15 mM reduced glutathione, 20% glycerol		
Purification:	One-step affinity purification using GSH-agarose		
Product Identity:	AKT2 was confirmed as AKT2 by specific Western Blotting using anti AKT2 antibody		
Activation:	With PDK1, (GenBank accession No.: NM_002613)		
Specific Activity:	272 pmol/µg×min		

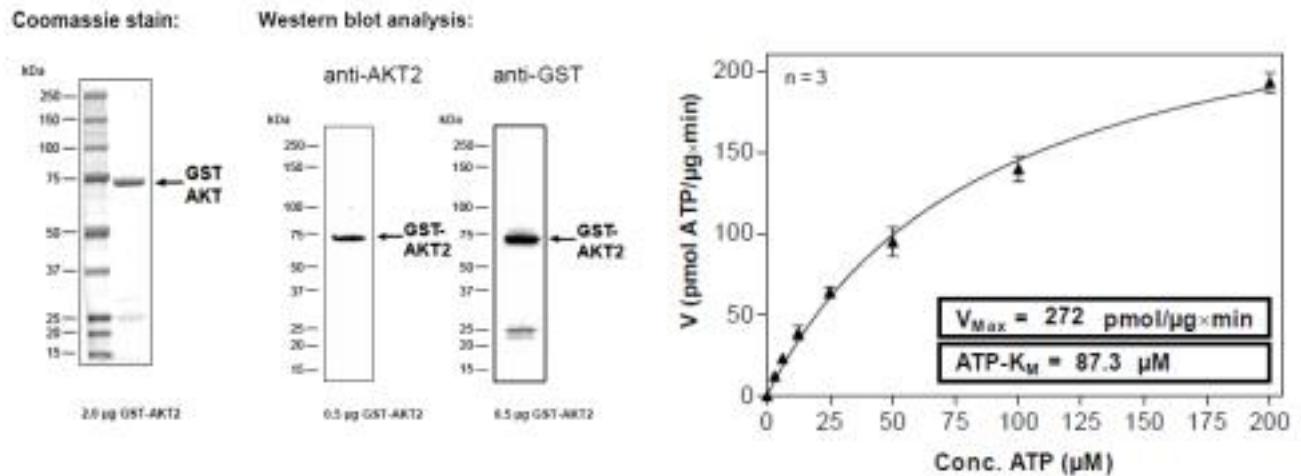
Method for determination of K_m value and specific activity:

- Assay conditions:
60 mM HEPES-NaOH, pH 7.5
3 mM MgCl₂
3 mM MnCl₂
3 µM Na-orthovanadate
1.2 mM DTT
2.5 µg / 50 µl PEG_{20,000}
ATP (variable)
Substrate: R₁₁-GSK3(14-27)
(R11-SGRARTSSFAEPGGK), 5 µg / 50 µl
Recombinant AKT2: 100 ng / 50 µl
- Filter binding assay
MAPH membrane (Millipore)



Storage & Stability: Store in working aliquots at -80°C. **Avoid repeated freeze-thaw cycles.**

Determination of K_m value for ATP:



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