



# Recombinant Rat RAC-beta serine/threonine-protein kinase (Akt2)

<b>Product Code</b>	CSB-EP001555RA-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P47197
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MNEVSVIKEG WLHKRGEYIK TWRPRYFLLK SDGSFIGYKE RPEAPDQTLP PLNNSVAEC QLMKTERPRP NTFVIRCLQW TTVIERTFHV DSPDEREEWI RAIQMVANSL KQRGPGEDAM DYKCGSPSDS STSEMMEVAV SKARAKVTMN DFDYLKLLGK GTFGKVLVR EKATGRYYAM KILRKEVIA KDEVAHTVTE SRVLQNTRHP FLTALKYAFQ THDRLCFVME YANGGDLFFH LSRERVFTED RARFYGAEIV SALEYLHSTD VVYRDIKLEN LMLDKDGHK ITDFGLSKEG ISDGATMKTG CGTPEYLAPE VLEDNDYGRA VDWWGLGVVM YEMMCGRLPF YNQDHERLFE LILMEEIRFP RTLGPEAKSL LAGLLKKDPK QRLGGGPSDA KEVMEHRFFL SINWQDVVQK KLLPPFKPQV TSEVDTRYFD DEFTAQSITI TPPDRYDSLQ SLELDQRTHF PQFSYSASIR E
<b>Source</b>	E.coli
<b>Target Names</b>	Akt2
<b>Protein Names</b>	Recommended name: RAC-beta serine/threonine-protein kinase EC= 2.7.11.1 Alternative name(s): Protein kinase Akt-2 Protein kinase B beta Short name= PKB beta RAC-PK-beta
<b>Expression Region</b>	1-481
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	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 phosphorylating several known proteins.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final



concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.