

Recombinant human AKT2 protein (Active) ab268317

2 Images

Description	
Product name	Recombinant human AKT2 protein (Active)
Biological activity	The specific activity of ab268317 was 44 nmol/min/mg in a peotide kinase assay using Akt (SGF) peptide (RPRAATF) as substrate.
Purity	> 70 % SDS-PAGE. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	<u>P31751</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MNEVSVIKEGWLHKRGEYKTRPRYFLLKSDGSFIGYKE RPEAPDQTLP PLNNFSVAECQLMKTERPRPNTFVIRCLQWTTVIERTFHV DSPDEREEWM RAIQMVANSLKQRAPGEDPMDYKCGSPSDSSTTEEMEV AVSKARAKVTMN DFDYLKLLGKGTFGKVILVREKATGRYYAMKILRKEVIAKD EVAHTVTE SRVLQNTRHPFLTALKYAFQTHDRLCFVMEYANGGELFFH LSRERVFTTE RARFYGAEIVSALEYLHSRDVVYRDIKLENLMLDKDGHKIT DFGLCKEG ISDGATMKTFCGTPEYLAPEVLEDNDYGRAVDWWGLGVV MYEMMCGRLPF YNQDHERLFELILMEEIRFPRTLSPREAKSLLAGLLKKDPKQ RLGGGPSDA KEVMEHRFFLSINWQDVVQKKLLPPFKPQVTSEVDTRYF DDEFTAQSITI TPPDYDSLGLLELDQRTHFPPQFSYSASIRE
Molecular weight information	Approx 60 kDa by SDS-PAGE
Amino acids	1 to 481
Tags	His tag N-Terminus

Additional sequence information GenBank: NM_001626

Specifications

Our **Abpromise guarantee** covers the use of **ab268317** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
	Functional Studies

Form	Liquid
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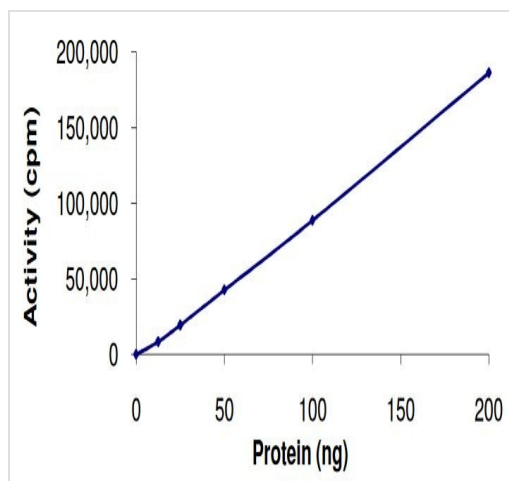
Preparation and Storage

Stability and Storage	<p>Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.</p> <p>pH: 7.00</p> <p>Preservative: 1.02% Imidazole</p> <p>Constituents: 0.82% Sodium phosphate, 1.74% Sodium chloride, 0.002% PMSF, 0.03% DTT, 25% Glycerol (glycerin, glycerine)</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
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General Info

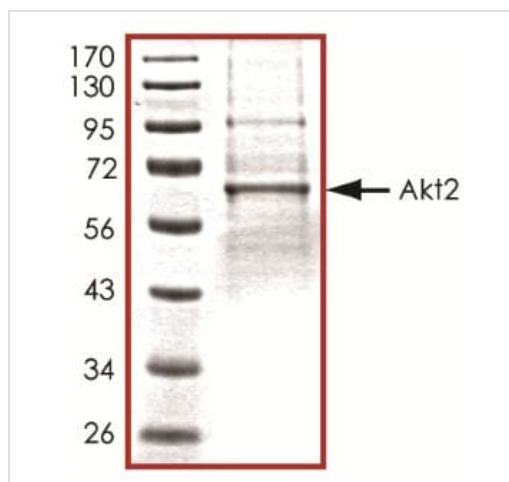
Function	General protein kinase capable of phosphorylating several known proteins.
Tissue specificity	Expressed in all human cell types so far analyzed.
Sequence similarities	<p>Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. RAC subfamily.</p> <p>Contains 1 AGC-kinase C-terminal domain.</p> <p>Contains 1 PH domain.</p> <p>Contains 1 protein kinase domain.</p>
Post-translational modifications	<p>Phosphorylation on Thr-309 and Ser-474 is required for full activity.</p> <p>Ubiquitinated; undergoes both 'Lys-48'- and 'Lys-63'-linked polyubiquitination. TRAF6-induced 'Lys-63'-linked AKT2 ubiquitination. When fully phosphorylated and translocated into the nucleus, undergoes 'Lys-48'-polyubiquitination catalyzed by TTC3, leading to its degradation by the proteasome.</p>

Images



The specific activity of ab268317 was 44 nmol/min/mg in a peptide kinase assay using Akt (SGF) peptide (RPRAATF) as substrate.

Functional Studies - Recombinant human AKT2 protein (Active) (ab268317)



SDS-PAGE analysis of ab268317.

SDS-PAGE - Recombinant human AKT2 protein (Active) (ab268317)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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