

# Recombinant Human AKT1 Substrate 1 (proline-rich), His-tagged And Myc-tagged

**Cat. No.** AKT1S1-1854H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant humanAKT1S1 containing amino acids 2-256 is produced as a maltose binding protein(MBP) fusion protein with an N-terminal polyhistidine tag and a C-terminalmyc Tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	2-256 a.a.
<b>Description</b>	AKT1S1 is a protein that in humans is encoded bythe AKT1S1 gene.
<b>Form</b>	Lyophilized from a0.2 sterile filtered solution, carrier-free.
<b>Purity</b>	> 90% asdetermined by SDS-PAGE analysis
<b>Molecular Weight</b>	75 kDa (migrates at85 kDa on SDS-PAGE gel)
<b>Biological Activity</b>	Recombinant humanAKT1S1 is phosphorylatable in vitro, using either recombinant active Akt1, orwith immunoprecipitated Akt from stimulated cells. This phosphorylation canbe monitored by Western blot analysis using a phosphorylation site specificantibody directed to AKT1S1, in conjunction with chemiluminescence detectionmethods. Optimization of the cell stimulation protocol, cell lysis procedure,and reaction conditions may be required for each specific application.

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<b>Reconstitution</b>	Centrifuge vial prior to opening. Add PBS to the vial to fully solubilize the protein to a concentration of 0.2-1.0 mg/ml.
<b>Storage</b>	Store lyophilized protein at 2-4°C and reconstituted protein in working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.
<b>Official Symbol</b>	AKT1S1
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	AKT1S1 AKT1 substrate 1 (proline-rich) [ Homo sapiens ]
<b>Synonyms</b>	AKT1S1; AKT1 substrate 1 (proline-rich); Lobe; PRAS40; MGC2865; AKT1S1; proline-rich AKT1 substrate 1; 40 kDa proline-rich AKT substrate; proline-rich Akt substrate, 40 kDa; OTTHUMP00000196759; OTTHUMP00000196760; OTTHUMP00000196756; OTTHUMP00000196757; OTTHUMP00000196758
<b>Gene ID</b>	84335
<b>mRNA Refseq</b>	NM_001098632
<b>Protein Refseq</b>	NP_001092102
<b>MIM</b>	610221
<b>UniProt ID</b>	Q96B36
<b>Chromosome Location</b>	19q13.33
<b>Pathway</b>	AKT phosphorylate targets in the cytosol; Downstream signaling of activated FGFR;

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LKB1 signaling events; NGF signalling via TRKA from the plasma membrane; PI-3K cascade; PI3K/AKT activation; PIP3 activates AKT signaling; Signaling by FGFR; Signaling events mediated by Hepatocyte Growth Factor Receptor (c-Met); Signalling by NGF; mTOR signaling pathway

**Function**

protein binding

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