

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

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	2-256 a.a.
Description	AKT1S1 is a protein that in humans is encoded bythe AKT1S1 gene.
Form	Lyophilized from a0.2 sterile filtered solution, carrier-free.
Purity	> 90% asdetermined by SDS-PAGE analysis
Molecular Weight	75 kDa (migrates at85 kDa on SDS-PAGE gel)
Biological Activity	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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Reconstitution	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.
Storage	Store lyophilized protein at 2-4°C and reconstituted protein in working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.
Official Symbol	AKT1S1
GENE INFORMATION	
Gene Name	AKT1S1AKT1 substrate 1 (proline-rich) [Homo sapiens]
Synonyms	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
Gene ID	84335
mRNA Refseq	NM_001098632
Protein Refseq	NP_001092102
MIM	610221
UniProt ID	Q96B36
Chromosome Location	19q13.33
Pathway	AKT phosphorylate targets in the cytosol; Downstream signaling of activated FGFR;

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LKB1signaling events; NGF signalling via TRKA from the plasma membrane; PI-3Kcascade; 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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