

RPS6KA1/RSK1 active protein

Recombinant RPS6KA1/RSK1 protein

CATALOG # AAA60316	HOST Baculovirus
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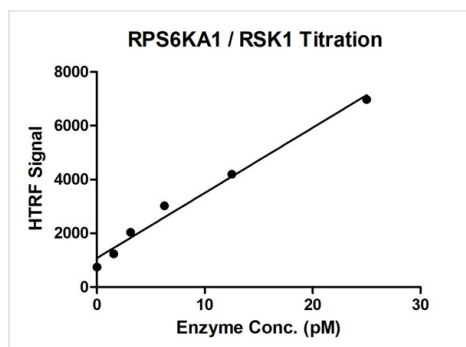
PRODUCT SYNONYMS

RPS6KA1/RSK1; Recombinant RPS6KA1/RSK1 protein; Ribosomal Protein S6 Kinase A1; RPS6KA1/RSK1 active protein

PRODUCT SPECIFICATIONS

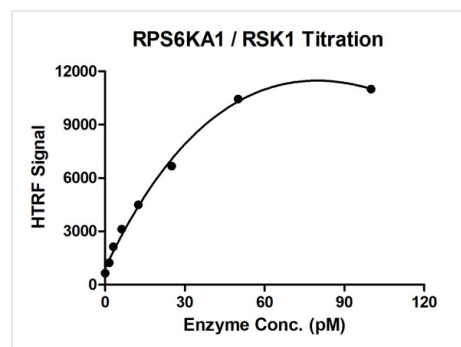
Host	Baculovirus
Purity/Purification	>=90%
Form/Format	Recombinant RPS6KA1/RSK1 protein is supplied in 25 mM HEPES NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.
Protein Species	Human
Protein Details	Recombinant RPS6KA1/RSK1 protein was expressed in baculovirus expression system as the full length protein (accession number NP_002944.2) with a N-terminal DYKDDDDK tag. The molecular weight of the protein is 84 kDa.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



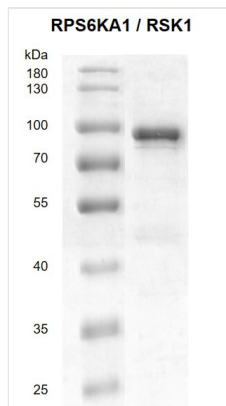
Bioactivity

HTRF assay for RPS6KA1/RSK1 activity 1 uM STK S1 substrate was incubated with different concentrations of RPS6KA1/RSK1 protein in 10 ul reaction system containing 1xEnzymatic Buffer, 5 mM MgCl₂, 1 mM DTT, and 100 uM ATP for 1 hour. The detection reagents were added and incubated with the reactions for 30 min. All operations and reactions were performed at room temperature, and HTRF assay was used to detect the enzymatic activity.



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SDS-PAGE

Recombinant RPS6KA1/RSK1 protein gel 10% SDS-PAGE Coomassie staining MW: 84 kDa
Purity: >= 90%

ADDITIONAL INFORMATION

Related Product Information for RPS6KA1/RSK1 active protein	RPS6KA1-(Ribosomal Protein S6 Kinase A1) is a serine/threonine-protein kinase that acts downstream of ERK (MAPK1/ERK2 and MAPK3/ERK1) signaling and mediates mitogenic and stress-induced activation of the transcription factors CREB1, ETV1/ER81 and NR4A1/NUR77. This protein regulates translation through RPS6 and EIF4B phosphorylation, and mediates cellular proliferation, survival, and differentiation by modulating mTOR signaling and repressing pro-apoptotic function of BAD and DAPK1. Diseases associated with RPS6KA1 include Coffin-Lowry Syndrome and Tuberous Sclerosis.
Product Categories/Family for RPS6KA1/RSK1 active protein	Kinase; Recombinant Proteins

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/baculovirus-active-protein/rps6ka1-rsk1/60316>