Bioactive Full-Length

RPS6KA3 (Human) Recombinant Protein

Catalog # P6559 Size 5 ug

Applications

Result of activity analysis

Result of activity analysis

Specification

Product Description	Human RPS6KA3 (NP_004577.1, 1 a.a. - 740 a.a.) full length recombinant protein with GST-tag at N-terminal using baculovirus expression system.
Host	Viruses
Form	Liquid
Preparation Method	Baculovirus expression system.
Purification	Glutathione sepharose chromatography.
Purity	0.6
Activity	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescence-labeled substrate and Mg (or Mn)/ATP. Substrate: S6K peptide (N-FL), ATP: 100 uM.
Quality Control Testing	The purity was assessed by SDS-PAGE/CBB staining.
Storage Buffer	50 mM Tris-HCl, 150 mM NaCl, 0.05% Brij35, 1 mM DTT, 10% glycerol, pH7.5
Storage Instruction	Stored at -80°C. Aliquot to avoid repeated freezing and thawing.

Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study

Gene Info — RPS6KA3

Entrez GeneID	6197
Protein Accession#	NP_004577.1
Gene Name	RPS6KA3
Gene Alias	CLS, HU-3, ISPK-1, MAPKAPK1B, MRX19, RSK, RSK2, S6K-alpha3, p90-RSK2, pp90RSK2
Gene Description	ribosomal protein S6 kinase, 90kDa, polypeptide 3
Omim ID	300075 303600
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinase s. This kinase contains 2 non-identical kinase catalytic domains and phosphorylates various subst rates, including members of the mitogen-activated kinase (MAPK) signalling pathway. The activity of this protein has been implicated in controlling cell growth and differentiation. Mutations in this g ene have been associated with Coffin-Lowry syndrome (CLS). [provided by RefSeq
Other Designations	OTTHUMP00000023036|insulin-stimulated protein kinase 1|mental retardation, X-linked 19|ribos omal protein S6 kinase, 90kD, polypeptide 3

Pathway

- Long-term potentiation
- MAPK signaling pathway
- mTOR signaling pathway
- Neurotrophin signaling pathway

Disease

- Head and Neck Neoplasms
- Neoplasm Recurrence
- Neoplasms