



RSK2 Rabbit mAb

Catalog No	YP-rAb-17563
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,IP,ELISA
Gene Name	RPS6KA3 ISPK1 MAPKAPK1B RSK2
Protein Name	RSK2
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; IP 1:50-1:200; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	Ribosomal protein S6 kinase alpha-3 ; S6K-alpha-3 ; 90 kDa ribosomal protein S6 kinase 3 ; p90-RSK 3 ; p90RSK3 ; Insulin-stimulated protein kinase 1 ; ISPK-1 ; MAP kinase-activated protein kinase 1b ; MAPK-activated protein kinase 1b ; MAPKAP kinase 1b ; MAPKAPK-1b ; Ribosomal S6 kinase 2 ; RSK-2 ; pp90RSK2 ;
Observed Band	84kD
Calculated Molecular Weight	84kD
Cell Pathway	Nucleus . Cytoplasm .
Tissue Specificity	Expressed in many tissues, highest levels in skeletal muscle.
Function	Catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,Disease:Defects in RPS6KA3 are the cause of Coffin-Lowry syndrome (CLS) [MIM:303600]; an X-linked dominant disorder characterized by severe mental retardation with facial and digital dysmorphisms, and progressive skeletal deformations.,enzyme regulation:Activated by multiple phosphorylations on threonine and serine residues.,Function:Serine/threonine kinase that may play a role in mediating the growth-factor and stress induced activation of the transcription factor





CREB.,PTM:Autophosphorylated on Ser-386, as part of the activation process.,PTM:Ser-227 phosphorylation promotes Ser-386 phosphorylation and leads to basal activation. Full activation by growth factors requires additional phosphorylation on Ser-369.,similarity:Belongs to the protein kinase superfamily . AGC Ser/Thr protein kinase family. S6 kinase subfamily.,similarity:Contains 1 AGC-kinase C-terminal domain.,similarity:Contains 2 protein kinase domains.,subunit:Forms a complex with either ERK1 or ERK2 in quiescent cells. Transiently dissociates following mitogenic stimulation (By similarity). Interacts with NFATC4.,tissue specificity:Expressed in many tissues, highest levels in skeletal muscle.,

Background

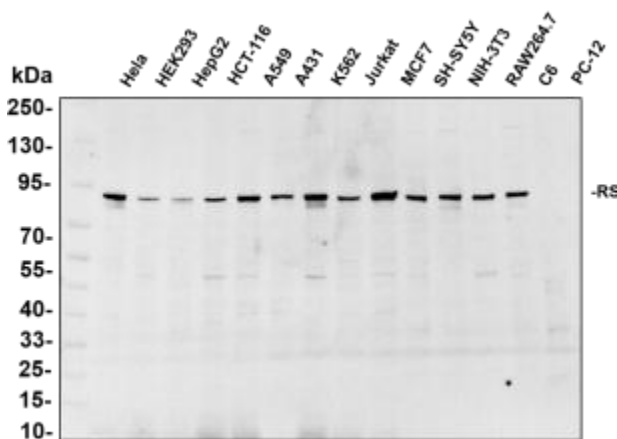
ribosomal protein S6 kinase A3(RPS6KA3) Homo sapiens This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinases. This kinase contains 2 non-identical kinase catalytic domains and phosphorylates various substrates, including members of the mitogen-activated kinase (MAPK) signalling pathway. The activity of this protein has been implicated in controlling cell growth and differentiation. Mutations in this gene have been associated with Coffin-Lowry syndrome (CLS). [provided by RefSeq, Jul 2008],

matters needing attention

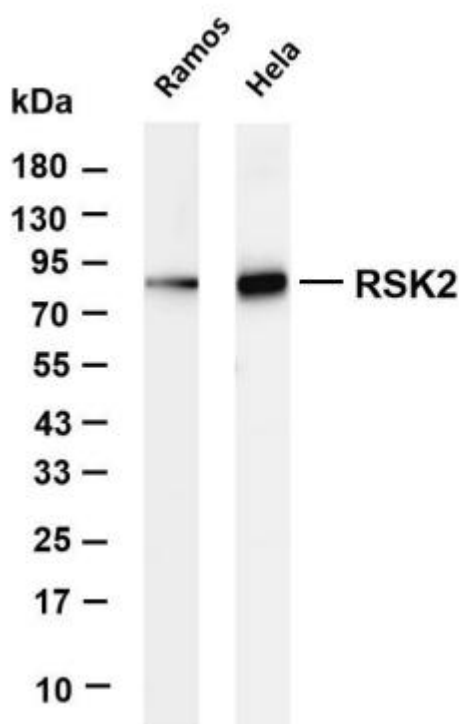
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

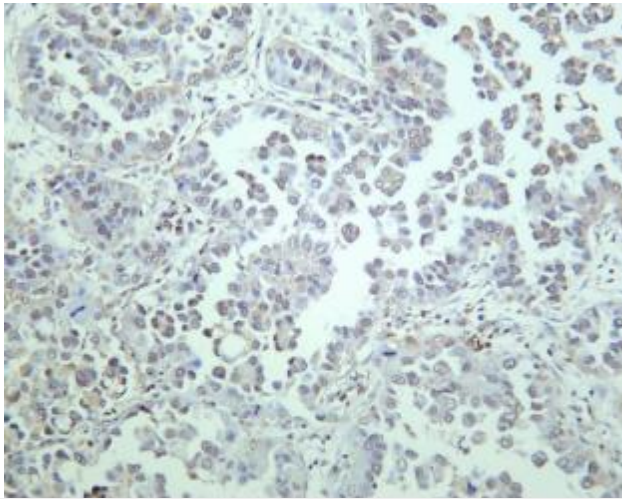


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4 °C, over night with a 1:2500 dilution . The Dylight 800-conjugated Goat anti-Rabbit antibody

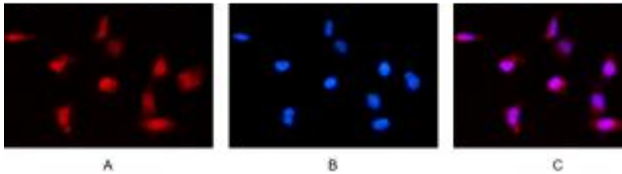


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-





Human lung carcinoma was stained with anti-



Immunofluorescence analysis of HEK293. Picture A: RSK2 antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B

