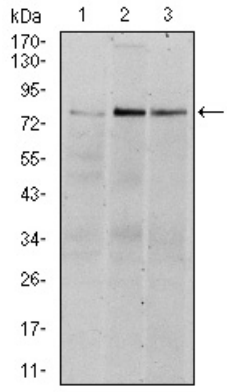
Rsk-2 Monoclonal Antibody

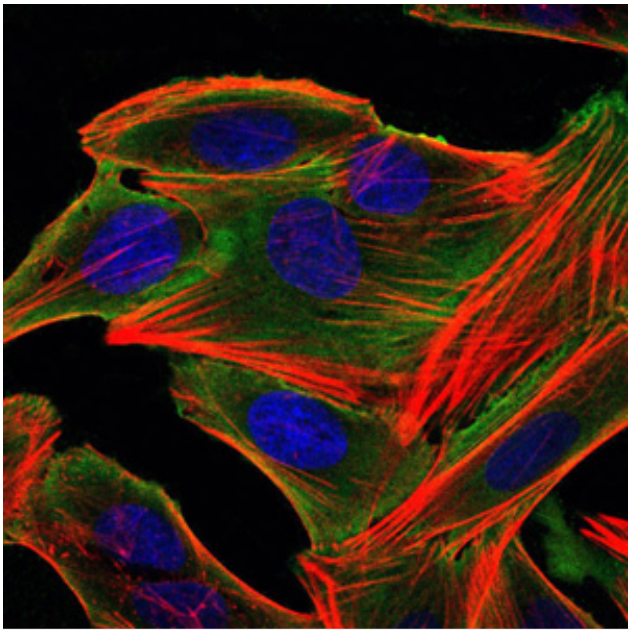
Catalog No	BYab-14191
Isotype	IgG
Reactivity	Human
Applications	WB;IF;FCM;ELISA
Gene Name	RPS6KA3
Protein Name	Ribosomal protein S6 kinase alpha-3
Immunogen	Purified recombinant fragment of human Rsk-2 expressed in E. Coli.
Specificity	Rsk-2 Monoclonal Antibody detects endogenous levels of Rsk-2 protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. Flow cytometry: 1/200 - 1/400. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	RPS6KA3; ISPK1; MAPKAPK1B; RSK2; 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
Observed Band	
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
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.

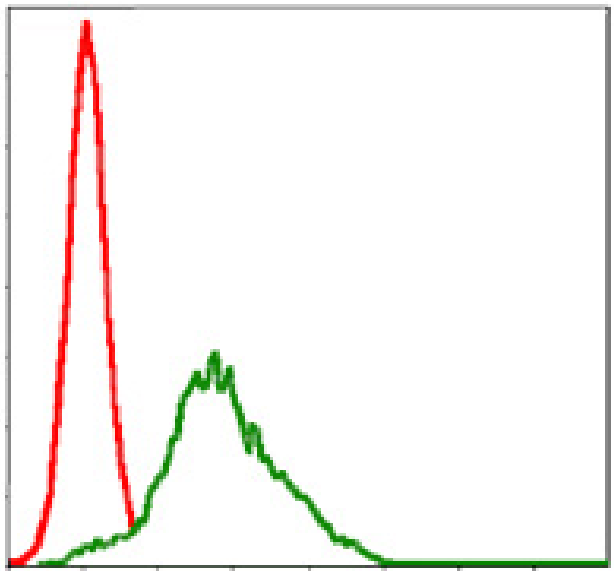
Products Images



Western Blot analysis using Rsk-2 Monoclonal Antibody against HeLa (1), MCF-7 (2), and HepG2 (3) cell lysate.



Immunofluorescence analysis of HepG2 cells using Rsk-2 Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of HepG2 cells using Rsk-2 Monoclonal Antibody (green) and negative control (red).