

## Rsk-1 Monoclonal Antibody

<b>Catalog No :</b>	YM0564
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	Rsk-1
<b>Fields :</b>	>>MAPK signaling pathway;>>Oocyte meiosis;>>mTOR signaling pathway;>>Thermogenesis;>>Long-term potentiation;>>Neurotrophin signaling pathway;>>Progesterone-mediated oocyte maturation;>>Insulin resistance;>>Yersinia infection;>>Chemical carcinogenesis - receptor activation
<b>Gene Name :</b>	RPS6KA1
<b>Protein Name :</b>	Ribosomal protein S6 kinase alpha-1
<b>Human Gene Id :</b>	6195
<b>Human Swiss Prot No :</b>	Q15418
<b>Mouse Swiss Prot No :</b>	P18653
<b>Immunogen :</b>	Purified recombinant fragment of human Rsk-1 expressed in E. Coli.
<b>Specificity :</b>	Rsk-1 Monoclonal Antibody detects endogenous levels of Rsk-1 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. ELISA: 1:10000.. IF 1:50-200
<b>Purification :</b>	Affinity purification
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	83kD

**Cell Pathway :** Regulates Angiogenesis; Insulin Receptor; B Cell Receptor; AMPK

**P References :** 1. Alcorta, D.A., et al. 1989. Mol. Cell. Biol. 9:3850-3859.  
2. Sweet, L.J., et al. 1990. Mol. Cell. Biol. 10: 2413-2417.

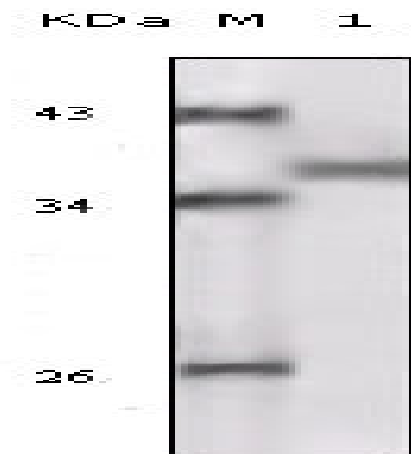
**Background :** ribosomal protein S6 kinase A1(RPS6KA1) Homo sapiens This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinases. This kinase contains 2 nonidentical kinase catalytic domains and phosphorylates various substrates, including members of the mitogen-activated kinase (MAPK) signalling pathway. The activity of this protein has been implicated in controlling cell growth and differentiation. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008],

**Function :** catalytic activity:ATP + a protein = ADP + a phosphoprotein.,caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,cofactor:Magnesium.,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-380, as part of the activation process.,similarity:Belongs to the protein kinase superfamily.,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 s

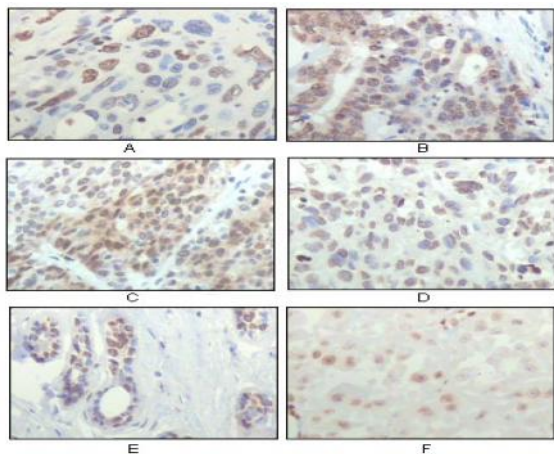
**Subcellular Location :** Nucleus. Cytoplasm.

**Expression :** Colon,Epithelium,

## Products Images



Western Blot analysis using Rsk-1 Monoclonal Antibody against truncated Rsk-1 recombinant protein.



Immunohistochemistry analysis of paraffin-embedded human esophageal squamous cell carcinoma (A), colon adenocarcinoma (B), liver carcinoma (C), skin carcinoma (D), breast ductal tumor (E) and brain tumor (F), showing nuclear localization with DAB staining