

## Rsk-1 (phospho Ser380) Polyclonal Antibody

Catalog No: YP0314

**Reactivity:** Human; Mouse; Rat

**Applications:** WB;IHC;IF;ELISA

Target: Rsk-1

**Fields:** >>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

Gene Name: RPS6KA1

**Protein Name:** Ribosomal protein S6 kinase alpha-1

Q15418

P18653

Human Gene Id: 6195

**Human Swiss Prot** 

No:

**Mouse Swiss Prot** 

No:

Rat Gene Id: 81771

Rat Swiss Prot No: Q63531

**Immunogen:** The antiserum was produced against synthesized peptide derived from human

p90 RSK around the phosphorylation site of Ser380. AA range:346-395

Specificity: Phospho-Rsk-1 (S380) Polyclonal Antibody detects endogenous levels of Rsk-1

protein only when phosphorylated at S380.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

**Dilution :** WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200

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**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 83kD

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

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

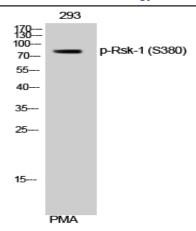
Subcellular Location:

Nucleus. Cytoplasm.

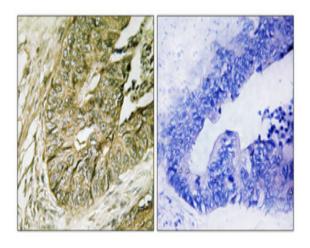
**Expression:** 

Colon, Epithelium,

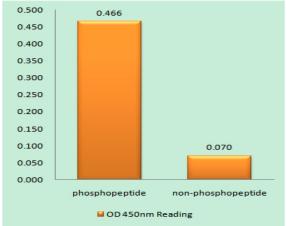
## **Products Images**



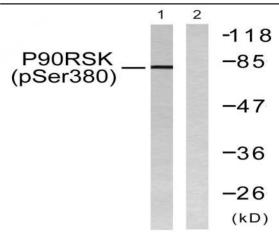
Western Blot analysis of 293 cells using Phospho-Rsk-1 (S380) Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human colon cancer. Antibody was diluted at 1:100(4° overnight). Highpressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was preabsorbed by immunogen peptide.



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using p90 RSK (Phospho-Ser380) Antibody



Western blot analysis of lysates from 293 cells treated with PMA 125ng/ml 30', using p90 RSK (Phospho-Ser380) Antibody. The lane on the right is blocked with the phospho peptide.