

**Rsk-1 (phospho Thr573) Polyclonal Antibody**

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| <b>Catalog No :</b>          | YP0887   |
| <b>Reactivity :</b>          | Human;Mouse;Rat  |
| <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>Rat Gene Id :</b>         | 81771  |
| <b>Rat Swiss Prot No :</b>   | Q63531   |
| <b>Immunogen :</b>           | The antiserum was produced against synthesized peptide derived from human p90 RSK around the phosphorylation site of Thr573. AA range:539-588  |
| <b>Specificity :</b>         | Phospho-Rsk-1 (T573) Polyclonal Antibody detects endogenous levels of Rsk-1 protein only when phosphorylated at T573.  |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG   |
| <b>Dilution :</b>            | WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not  |

yet tested in other applications.

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**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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

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**Observed Band :** 95kD

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

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**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],

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**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

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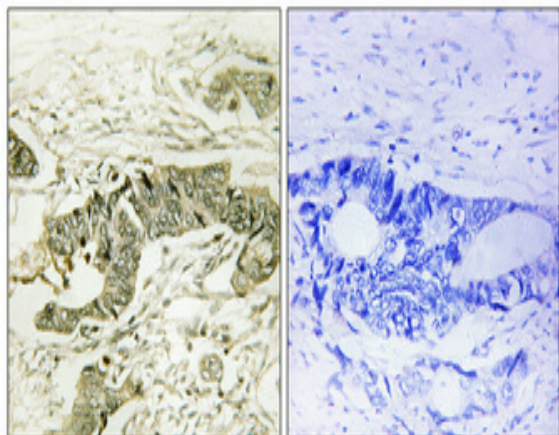
**Subcellular Location :** Nucleus. Cytoplasm.

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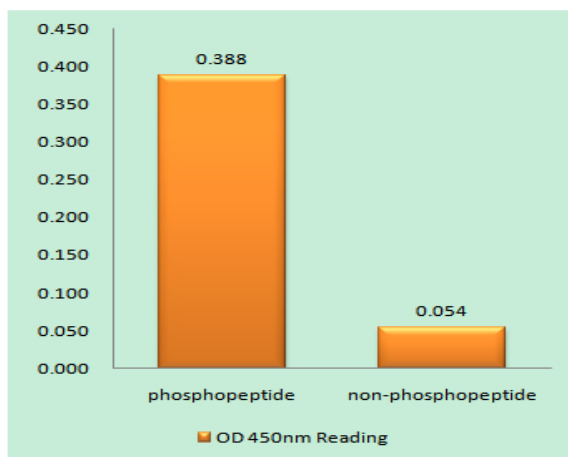
**Expression :** Colon,Epithelium,

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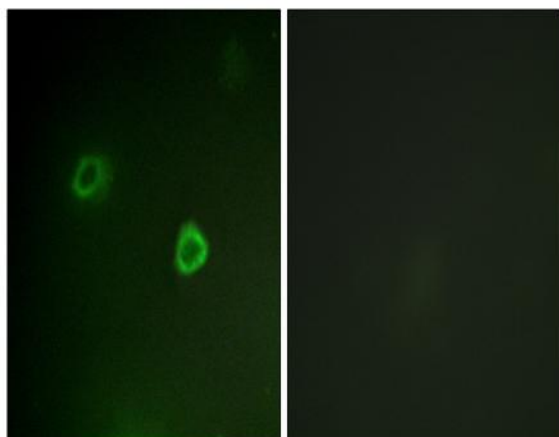
## Products Images



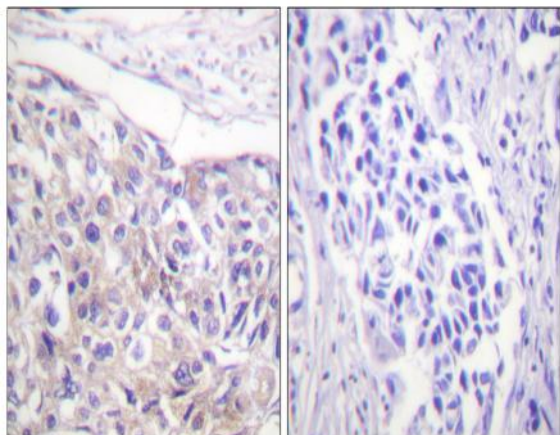
Immunohistochemical analysis of paraffin-embedded Human colon cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



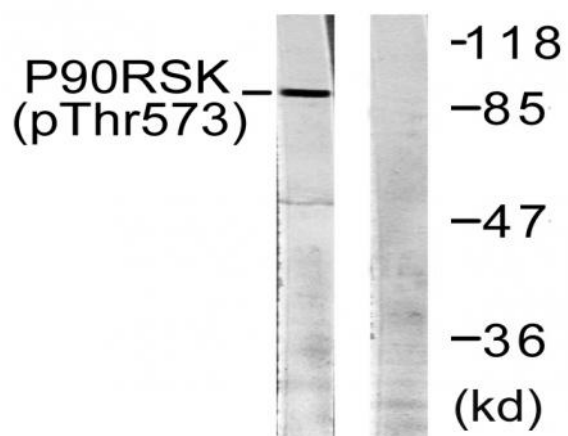
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using p90 RSK (Phospho-Thr573) Antibody



Immunofluorescence analysis of COS7 cells, using p90 RSK (Phospho-Thr573) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using p90 RSK (Phospho-Thr573) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells treated with UV 30', using p90 RSK (Phospho-Thr573) Antibody. The lane on the right is blocked with the phospho peptide.