

**Product Name:** RSK1 Mouse Monoclonal Antibody**Catalog #:** AMM80594

For research use only.

## Summary

|                      |   |
|----------------------|---|
| <b>Description</b>   | Mouse monoclonal Antibody   |
| <b>Host</b>          | Mouse   |
| <b>Application</b>   | IHC,ELISA   |
| <b>Reactivity</b>    | Human   |
| <b>Conjugation</b>   | Unconjugated  |
| <b>Modification</b>  | Unmodified  |
| <b>Isotype</b>       | Mouse IgG2b   |
| <b>Clonality</b>     | Monoclonal  |
| <b>Form</b>          | Liquid  |
| <b>Concentration</b> | 1mg/ml  |
| <b>Storage</b>       | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>      | Ice bags  |
| <b>Buffer</b>        | PBS containing 0.03% sodium azide.  |
| <b>Purification</b>  | Affinity Purification   |

## Application

|                         |                                       |
|-------------------------|---------------------------------------|
| <b>Dilution Ratio</b>   | IHC 1:200-1:1000,ELISA 1:5000-1:20000 |
| <b>Molecular Weight</b> | /                                     |

## Antigen Information

|                          |   |
|--------------------------|---|
| <b>Gene Name</b>         | RSK1  |
| <b>Alternative Names</b> | RSK; HU-1; RSK1; MAPKAPK1A; RPS6KA1                               |
| <b>Gene ID</b>           | 6195.0  |
| <b>SwissProt ID</b>      | Q15418  |
| <b>Immunogen</b>         | Purified recombinant fragment of human RSK1 expressed in E. Coli. |

## Background

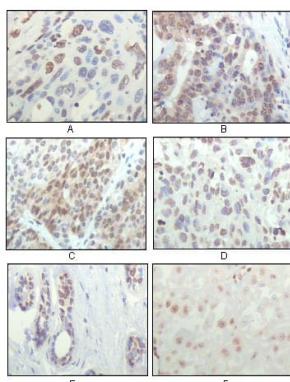
Rsk1 is a member of a family of 90kDa ribosomal protein S6 kinases, which includes Rsk1, Rsk2 and Rsk3. These are broadly expressed serine / threonine protein kinases activated in response to mitogenic stimuli, including extracellular signal regulated protein kinases Erk1 and Erk2. Rsk1 is activated by MAPK in vitro and in vivo via phosphorylation. Active Rsk appear to play a

major role in transcriptional regulation by translocating to the nucleus and phosphorylating c-Fos and CREB. RSK proteins possess two separate kinase domains, the C terminal kinase domain and the N terminal kinase domain, separated by a linker region containing a hydrophobic motif. RSK is activated by many stimuli including growth factors, phorbol esters, cAMP, heat shock, and irradiation.

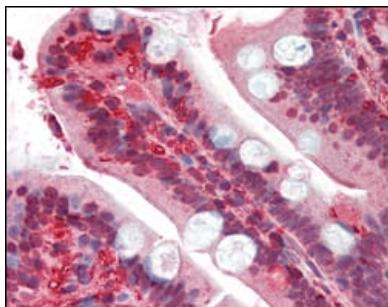
## Research Area

mTOR signaling pathway

## Image Data



Immunohistochemical 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 using RSK1 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human small intestine tissues using RSK1 mouse mAb.