

## Product datasheet

# Anti-S6K1 antibody ab9366

★★★★★ 7 Abreviews 9 References

### 概述

产品名称	Anti-S6K1抗体
描述	兔多克隆抗体to S6K1
宿主	Rabbit
特异性	Reacts strongly with 70 kd of p70 S6K, but only weakly with the 80 kDa S6K.
经测试应用	适用于: WB, ELISA, IP
种属反应性	与反应: Mouse, Rat, Rabbit, Cow, Human, Pig
免疫原	Synthetic peptide corresponding to Human S6K1 (C terminal) conjugated to Keyhole Limpet Haemocyanin (KLH). Sequence: ISKRPEHLRMNL
	<a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
阳性对照	Use Mouse brain extract.

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	PBS with 0.02% sodium azide
纯度	Immunogen affinity purified
纯化说明	Immunoaffinity chromatography with S6K C-terminal peptide on agarose.
克隆	多克隆
同种型	IgG

### 应用

Our [Abpromise guarantee](#) covers the use of **ab9366** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB	★★★★★	1/250.
ELISA		1/500.
IP		Use at 3 µg/mg of lysate.

## 靶标

<b>功能</b>	Acts to integrate nutrient and growth factor signals in regulation of protein synthesis, cell proliferation, cell growth, cell cycle progression and cell survival. Downstream effector of the mTOR signaling pathway. Phosphorylates specifically ribosomal protein S6 in response to insulin or several classes of mitogens. During translation initiation, the inactive form associates with the eIF-3 complex under conditions of nutrient depletion. Mitogenic stimulation leads to phosphorylation and dissociation from the eIF-3 complex and the free activated form can phosphorylate other translational targets including EIF4B. Promotes protein synthesis by phosphorylating PDCD4 at 'Ser-67' and targeting it for degradation. Phosphorylates RICTOR leading to regulation of mammalian target of rapamycin complex 2 (mTORC2) signaling; probably phosphorylates RICTOR at 'Thr-1135'. Phosphorylates IRS1 at multiple serine residues coupled with insulin resistance; probably phosphorylates IRS1 at 'Ser-270'. Required for TNF-alpha induced IRS-1 degradation. Phosphorylates EEF2K in response to IGF1 and inhibits EEF2K activity. Phosphorylates BAD at 'Ser-99' in response to IGF1 leading to BAD inactivation and inhibition of BAD-induced apoptosis. Phosphorylates mitochondrial RMP leading to dissociation of a RMP:PPP1CC complex; probably phosphorylates RMP at 'Ser-99'. The free mitochondrial PPP1CC can dephosphorylate RPS6KB1 at Thr-412 which is proposed to be a negative feed back mechanism for the RPS6KB1 antiapoptotic function. Phosphorylates GSK3B at 'Ser-9' under conditions leading to loss of the TSC1-TSC2 complex. Phosphorylates POLDIP3.
<b>组织特异性</b>	Widely expressed.
<b>序列相似性</b>	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. S6 kinase subfamily. Contains 1 AGC-kinase C-terminal domain. Contains 1 protein kinase domain.
<b>结构域</b>	The autoinhibitory domain is believed to block phosphorylation within the AGC-kinase C-terminal domain and the activation loop. The TOS (TOR signaling) motif is essential for activation by mTORC1.
<b>翻译后修饰</b>	Phosphorylation at Thr-412 is regulated by mTORC1. The phosphorylation at this site is maintained by an agonist-dependent autophosphorylation mechanism.
<b>细胞定位</b>	Cytoplasm; Nucleus. Cytoplasm and Cell junction > synapse > synaptosome. Mitochondrion outer membrane.

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