

Product datasheet

Anti-S6K1 antibody [4G4] ab119011

3 图像

概述

产品名称	Anti-S6K1抗体[4G4]
描述	小鼠单克隆抗体[4G4] to S6K1
宿主	Mouse
经测试应用	适用于: WB, Flow Cyt, ICC/IF
种属反应性	与反应: Human
免疫原	Full length recombinant Human S6K protein, produced in HEK293T cells (NP_003152).
阳性对照	HEK293T cell lysate transfected with pCMV6-ENTRY S6K cDNA; COS7 cells transiently transfected with pCMV6-ENTRY S6K; HEK293T cells transfected with pCMV6-ENTRY S6K overexpress plasmid.
常规说明	Dilute in PBS (pH7.3) before use. Stable for 12 months from date of receipt.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
存储溶液	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 48% PBS, 50% Glycerol, 1% BSA
纯度	Protein G purified
纯化说明	ab119011 is purified from Mouse ascites fluid by affinity chromatography.
克隆	单克隆
克隆编号	4G4
同种型	IgG1

应用

Our [Abpromise guarantee](#) covers the use of **ab119011** in the following tested applications.

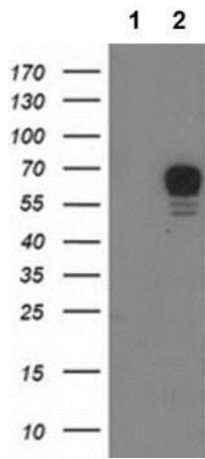
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		1/2000. Predicted molecular weight: 59 kDa.
Flow Cyt		1/100. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ICC/IF		1/100.

靶标

功能	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.
组织特异性	Widely expressed.
序列相似性	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.
结构域	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.
翻译后修饰	Phosphorylation at Thr-412 is regulated by mTORC1. The phosphorylation at this site is maintained by an agonist-dependent autophosphorylation mechanism.
细胞定位	Cytoplasm; Nucleus. Cytoplasm and Cell junction > synapse > synaptosome. Mitochondrion outer membrane.

图片



Western blot - Anti-S6K antibody [4G4] (ab119011)

All lanes : Anti-S6K1 antibody [4G4]
(ab119011) at 1/2000 dilution

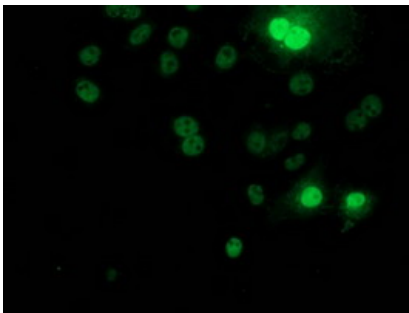
Lane 1 : HEK293T cell lysate transfected with pCMV6-ENTRY control cDNA

Lane 2 : HEK293T cell lysate transfected with pCMV6-ENTRY S6K cDNA

Lysates/proteins at 5 µg per lane.

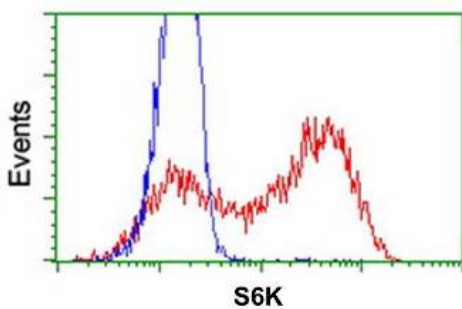
Predicted band size: 59 kDa

HEK293T cell lysates were generated from transient transfection of the cDNA clone (RC202093)



Immunocytochemistry/ Immunofluorescence - Anti-S6K antibody [4G4] (ab119011)

ab119011, at 1/100, staining S6K in COS7 cells transiently transfected with pCMV6-ENTRY S6K by Immunofluorescence.



Flow Cytometry - Anti-S6K antibody [4G4] (ab119011)

ab119011, at 1/100, staining S6K in HEK293T cells transfected with either pCMV6-ENTRY S6K overexpressing plasmid (Red) or empty vector control plasmid (Blue) by flow cytometry.

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