Product Name: **p7S6 Kinase (Phospho-Ser 411) Mouse Monoclonal Antibody**
Catalog #: **AMM86148**
For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC,IP
Reactivity	Human, Mouse, Rat
Conjugation	Unconjugated
Modification	Phosphorylated
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in TBS with 0.05% sodium azide,1%protective protein and 50% glycerol.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:50-1:500,ICC 1:100-1:500,IP 1:20-1:50
Molecular Weight	70kDa

Antigen Information

Gene Name	p7S6 Kinase (Phospho-Ser 411)
Alternative Names	70 kDa ribosomal protein S6 kinase 2 antibody</br> EC 2.7.11.1 antibody</br> KS6B2_HUMAN antibody</br> p70 beta antibody</br> p70 ribosomal S6 kinase beta antibody</br> p70 S6 kinase beta antibody</br> p70 S6K-beta antibody</br> p70 S6KB antibody</br> p70 S6Kbeta antibody</br> p70(S6K) beta antibody</br> p70-beta antibody</br> p70-S6K 2 antibody</br> P70S6K2 antibody</br> p70S6Kb antibody</br> Ribosomal protein S6 kinase 70kDa, polypeptide 2 antibody</br> Ribosomal protein S6 kinase beta 2 antibody</br> Ribosomal protein S6 kinase beta-2 antibody</br> Rps6kb2 antibody</br> S6 kinase related kinase antibody</br> S6 kinase-related kinase antibody</br> S6K beta 2 antibody</br> S6K beta antibody</br> S6K-beta antibody</br>

	S6K-beta-2 antibody</br> S6K2 antibody</br> Serine/threonine protein kinase 14 beta antibody</br> Serine/threonine-protein kinase 14B antibody</br> SRK antibody</br> STK14B antibody</br>
Gene ID	6199;
SwissProt ID	Q9UBS0
Immunogen	A sequence containing Ser 411 phosphorylated p70 S6 kinase α isoform 2 of human origin.

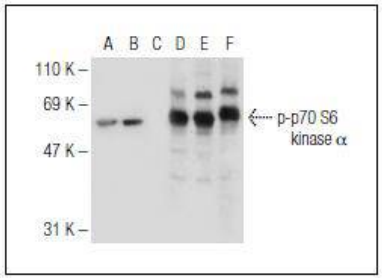
Background

In studies to elucidate key regulatory pathways in signal transduction, several protein serine/threonine (Ser/Thr) kinases have been identified. Included among such kinases are two distinct families of 40S ribosomal protein S6 Ser/Thr kinases present in somatic animal cells, designated p70 S6 kinase and p90 Rsk kinase. p90 Rsk kinase is maximally activated within minutes of addition of growth factors or phorbol ester to cultured cells followed by activation of p70 S6 kinase. Both enzymes are regulated by serine/threonine phosphorylation, suggesting that specific kinases may exist upstream in the signaling pathway that regulate these kinases. In fact, evidence suggests that one such family of activating enzymes includes the members of the ERK MAP kinase family. The ERK MAP kinases are, in turn, regulated by phosphorylation at threonine and tyrosine residues by a protein kinase designated MEK.

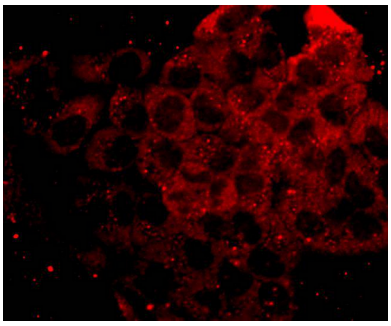
Research Area

PI3K-Akt signaling pathway

Image Data



Western blot analysis of p70 S6 kinase α phosphorylation in untreated (A,D), insulin treated (B,E) and insulin treated and lambda protein phosphatase treated (C,F) HEK293 whole cell lysates. Antibodies tested include p-p70 S6 kinase α (A-6) (A,B,C) and p70 S6 kinase α (C-18) (D,E,F).



Immunofluorescence staining of anisomycin-treated, methanol-fixed NIH/3T3 cells, showing cytoplasmic and nuclear localization of activated p70 S6 kinase α (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human esophagus tissue showing nuclear staining of squamous epithelial cells (B).