

## p70 S6 Kinase (Phospho-Ser 411) Antibody

Catalog No: #13329

Package Size: #13329-1 50ul #13329-2 100ul

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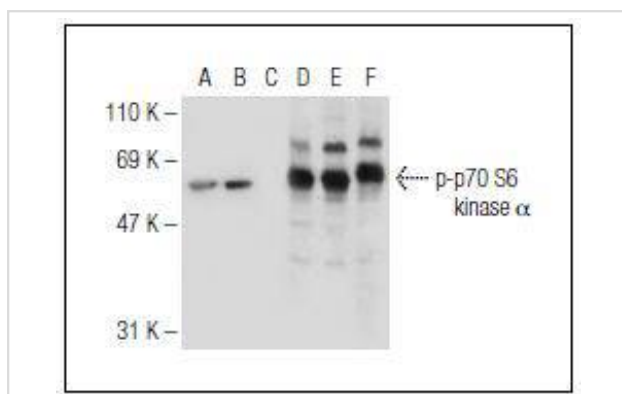
## Description

Product Name	p70 S6 Kinase (Phospho-Ser 411) Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	2G1
Purification	ProA affinity purified
Applications	WB, IP, IF, IHC(P)
Species Reactivity	Hu, Ms, Rt
Immunogen Description	A sequence containing Ser 411 phosphorylated p70 S6 kinase $\alpha$ isoform 2 of human origin.
Other Names	70 kDa ribosomal protein S6 kinase 2 antibody EC 2.7.11.1 antibody KS6B2_HUMAN antibody p70 beta antibody p70 ribosomal S6 kinase beta antibody p70 S6 kinase beta antibody p70 S6K-beta antibody p70 S6KB antibody p70 S6Kbeta antibody p70(S6K) beta antibody p70-beta antibody p70-S6K 2 antibody P70S6K2 antibody p70S6Kb antibody Ribosomal protein S6 kinase 70kDa, polypeptide 2 antibody Ribosomal protein S6 kinase beta 2 antibody Ribosomal protein S6 kinase beta-2 antibody Rps6kb2 antibody S6 kinase related kinase antibody S6 kinase-related kinase antibody S6K beta 2 antibody S6K beta antibody S6K-beta antibody S6K-beta-2 antibody S6K2 antibody Serine/threonine protein kinase 14 beta antibody Serine/threonine-protein kinase 14B antibody SRK antibody STK14B antibody
Accession No.	Swiss-Prot#:Q9UBS0
Uniprot	Q9UBS0
GeneID	6199;
Calculated MW	70kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

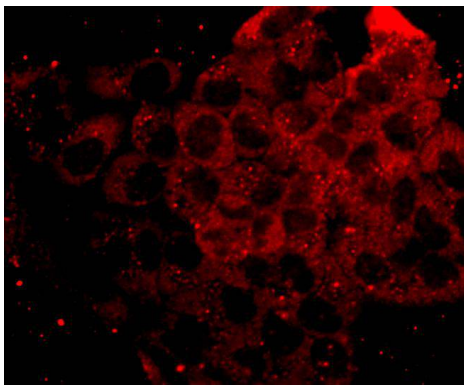
## Application Details

WB: 1:100-1:1,000IHC: 1:50-1:500IP: 1-2  $\mu$ g per 100-500  $\mu$ g of total protein(1 ml of cell lysate)

## Images



Western blot analysis of p70 S6 kinase  $\alpha$  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  $\alpha$  (A-6) (A,B,C) and p70 S6 kinase  $\alpha$  (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  $\alpha$  (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human esophagus tissue showing nuclear staining of squamous epithelial cells (B).

## 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.

## References

Note: This product is for in vitro research use only