p70 S6K (phospho-S418) polyclonal antibody

Catalog: BCP01256 Host: Rabbit Reactivity: Human,Mouse,Rat

BackGround:

p70 S6 kinase is a mitogen activated Ser/Thr protein kinase that is required for cell growth and G1 cell cycle progression. p70 S6 kinase phosphorylates the S6 protein of the 40S ribosomal subunit and is involved in translational control of 5' oligopyrimidine tract mRNAs. A second isoform, p85 S6 kinase, is derived from the same gene and is identical to p70 S6 kinase except for 23 extra residues at the amino terminus, which encode a nuclear localizing signal.Ser411, Thr421 and Ser424 lie within a Ser-Pro-rich region located in the pseudosubstrate region. Phosphorylation at these sites is thought to activate p70 S6 kinase via relief of pseudosubstrate suppression. Another LY294002 and rapamycin sensitive phosphorylation site, Ser371, is an in vitro substrate for mTOR and correlates well with the activity of a partially rapamycin resistant mutant p70 S6 kinase.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 59,70,85 kDa

Swiss-Prot:

P23443

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

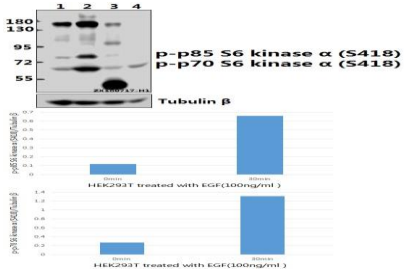
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

p-p70 S6K (S418) polyclonal antibody detects endogenous levels of p70 S6 kinase only when phosphorylated at Ser418. This antibody also detects p85 S6 kinase when phosphorylated at Ser441.

DATA:



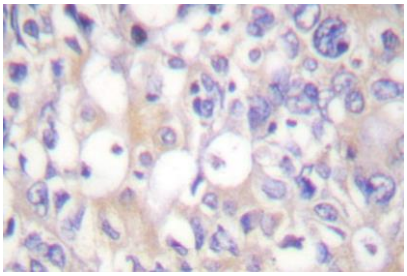
Western blot (WB) analysis of p-p70 S6 kinase α (S418) pAb at 1:500 dilution

Lane1:HEK293T whole cell lysate(40ug)

Lane2:HEK293T treated with EGF(100ng/ml,30 minutes) whole cell lysate(40ug)

Lane3:PC12 whole cell lysate(40ug)

Lane4:3T3-L1 whole cell lysate(40ug)



Note:

For research use only, not for use in diagnostic procedure.

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