

Product datasheet for AP20854PU-M

OriGene Technologies, Inc.

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S6K1 (RPS6KB1) pSer447 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: Western blot: 1/500 - 1/1000.

Immunohistochemistry on paraffin sections: 1/50 - 1/200.

Reactivity: Human, Mouse, Rat

Host: Rabbit

Clonality: Polyclonal

Specificity: This antibody detects endogenous levels of p70 S6 kinase alpha protein only when

phosphorylated at Ser424.

Formulation: Phosphate buffered saline (PBS), pH 7.2.

State: Aff - Purified

State: Liquid purified Ig fraction

Stabilizer: 50% glycerol

Preservative: 0.09% sodium azide

Concentration: 1.0 mg/ml

Purification: Affinity chromatography (> 95% (by SDS-PAGE)

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: ~59,70,85 kDa

Gene Name: ribosomal protein S6 kinase B1

Database Link: Entrez Gene 72508 MouseEntrez Gene 83840 RatEntrez Gene 6198 Human

P23443





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.

Synonyms:

Ribosomal protein S6 kinase I, S6K1, p70 S6 kinase alpha, p70 S6K-alpha, p70 S6KA,

Serine/threonine-protein kinase 14A

Protein Families:

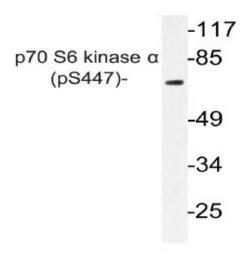
Druggable Genome, Protein Kinase

Protein Pathways:

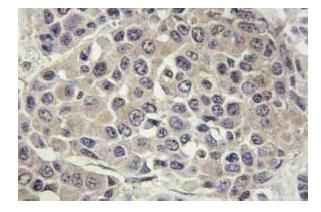
Acute myeloid leukemia, ErbB signaling pathway, Fc gamma R-mediated phagocytosis, Insulin

signaling pathway, mTOR signaling pathway, TGF-beta signaling pathway

Product images:



Western blot (WB) analyzes of p-p70 S6 kinase alpha antibody (Cat.-No.: [AP20854PU-N]) in extracts from A549 PMA cells.



Immunohistochemistry (IHC) analyzes of p-p70 S6 kinase alpha antibody (Cat.-No.: [AP20854PU-N]) in paraffin-embedded human breast carcinoma tissue.