



Rabbit anti p70S6K Polyclonal Antibody

Alternative Name(s): Ribosomal protein S6 kinase, 70 kDa-S6K

Order Information

- **Description:** p70S6K
- **Catalogue:** 601-310
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Rt, Ms

ANTIGEN PREPARATION

A synthetic peptide corresponding to the C-terminus of human p70S6K protein. This sequence is identical within human, rat, mouse, bovine, chicken and dog.

BACKGROUND

S6 kinase, or p70 S6 Kinase, a mitogen activated Ser/Thr protein kinase, is required for cell growth and G1 cell cycle progression. P70 S6 Kinase and single 4E-BP are phosphorylated via the insulin and target of rapamycin (TOR) signaling pathway which is independent of PI3K and AKT activity. On the other hand, the oncogenic transformation by P3k and Akt is dependent on targets that control translation: transforming activity, which is correlated with phosphorylation and activation of S6K and eliminated by the mTOR inhibitor rapamycin. S6K phosphorylates the S6 protein of the 40S ribosomal subunit.

PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes ~70 kDa of human p70S6K protein. This antibody also reacts with mouse and rat. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 70.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

FOR RESEARCH USE ONLY.

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DATA ATTACHMENTS



Western Blot: The cell lysate derived from 3T3 cells (20 ug/lane) was immunoprobed by Rabbit anti-p70S6K (pS434) (Cat#601-030) at 1:500. An immunoreactive band is observed around ~70kDa (lane 1). This band is blocked by pre-incubation with immunizing peptide (Lane 2).

REFERENCES

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