

## p70 S6 kinase α (phospho Ser427) Polyclonal Antibody

Catalog No: YP1053

**Reactivity:** Human; Mouse; Rat

**Applications:** WB;IHC;IF;ELISA

Target: p70 S6 kinase α

**Fields:** >>EGFR tyrosine kinase inhibitor resistance;>>Endocrine resistance;>>ErbB

signaling pathway;>>HIF-1 signaling pathway;>>Autophagy - animal;>>mTOR

signaling pathway;>>PI3K-Akt signaling pathway;>>AMPK signaling pathway;>>Longevity regulating pathway -

multiple species;>>TGF-beta signaling pathway;>>Apelin signaling

pathway;>>Fc gamma R-mediated phagocytosis;>>Thermogenesis;>>Insulin signaling pathway;>>Insulin resistance;>>Shigellosis;>>Human cytomegalovirus infection;>>Human papillomavirus infection;>>Human immunodeficiency virus 1

infection;>>Pathways in cancer;>>Proteoglycans in cancer;>>Chemical carcinogenesis - receptor activation;>>Colorectal cancer;>>Pancreatic cancer;>>Acute myeloid leukemia;>>Breast cancer;>>Hepatocellular carcinoma;>>Gastric cancer;>>Choline metabolism in cancer;>>PD-L1

expression and PD-1 checkpoint pathway in cancer

Gene Name: RPS6KB1 STK14A P70S6K

**Protein Name:** Ribosomal protein S6 kinase beta-1

Human Gene Id: 6198

Human Swiss Prot P23443

No:

Mouse Gene ld: 72508

Mouse Swiss Prot

t Q8BSK8

No:

Rat Gene Id: 83840

Rat Swiss Prot No: P67999

**Immunogen:** The antiserum was produced against synthesized peptide derived from human

1/3



p70 S6 Kinase around the phosphorylation site of Ser427. AA range:393-442

**Specificity:** Phospho-p70 S6 kinase α (S427) Polyclonal Antibody detects endogenous

levels of p70 S6 kinase α protein only when phosphorylated at S427.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

**Dilution :** WB 1:500-2000 IHC 1:100 - 1:300. ELISA: 1:40000. IF 1:50-200

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 70kD

**Cell Pathway:** Regulates Angiogenesis; Insulin Receptor; ErbB/HER; mTOR; B Cell Receptor;

PI3K/Akt; PI3K/Akt; AMPK

Background: ribosomal protein S6 kinase B1(RPS6KB1) Homo sapiens This gene encodes a

member of the ribosomal S6 kinase family of serine/threonine kinases. The encoded protein responds to mTOR (mammalian target of rapamycin) signaling to promote protein synthesis, cell growth, and cell proliferation. Activity of this gene has been associated with human cancer. Alternatively spliced transcript variants have been observed. The use of alternative translation start sites results in isoforms with longer or shorter N-termini which may differ in their subcellular localizations. There are two pseudogenes for this gene on chromosome 17.

[provided by RefSeq, Jan 2013],

**Function:** catalytic activity:ATP + a protein = ADP + a phosphoprotein.,enzyme

regulation: Activation by serine/threonine phosphorylation and protein kinase C, inactivated by type 2A phosphatase., function: Phosphorylates specifically

ribosomal protein S6 in response to insulin or several classes of

mitogens.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs

to the protein kinase superfamily. AGC Ser/Thr protein kinase family. S6 kinase

subfamily., similarity: Contains 1 AGC-kinase C-terminal

domain., similarity: Contains 1 protein kinase domain., subunit: Interacts with

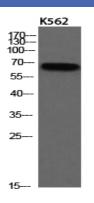
PPP1R9A/neurabin-1.,tissue specificity:Widely expressed.,

Subcellular Location : Cell junction, synapse, synaptosome. Mitochondrion outer membrane. Mitochondrion. Colocalizes with URI1 at mitochondrion.; [Isoform Alpha I]:

Nucleus. Cytoplasm.; [Isoform Alpha II]: Cytoplasm.

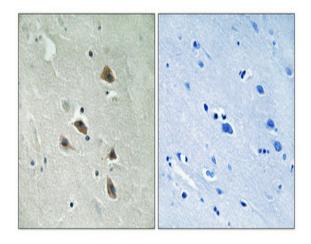
**Expression:** Widely expressed.

## **Products Images**

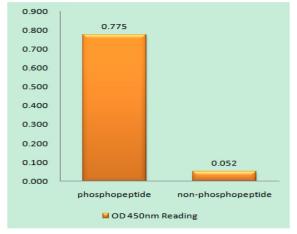


p-p70 S6 kinase α (S427)

Western blot analysis of K562 using p-p70 S6 kinase  $\alpha$  (S427) antibody.



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using p70 S6 Kinase (Phospho-Ser427) Antibody