

Phospho-p70(S6K) (Thr389)/p85(S6K) (Thr412) Recombinant antibody

Catalog Number: 82373-1-RR

Basic Information

Catalog Number:

82373-1-RR

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_003161

GeneID (NCBI):

6198

UNIPROT ID:

P23443

Full Name:

ribosomal protein S6 kinase, 70kDa, polypeptide 1

Observed MW:

65-85 kDa

Purification Method:

Protein A purification

CloneNo.:

1G15

Recommended Dilutions:

WB: 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : IGF-1 treated MCF-7 cells,

Background Information

The Rps6kb1 gene encodes the 70 kDa ribosomal protein S6 kinase (p70S6K), which is a serine/threonine kinase regulated by phosphoinositide 3-kinase (PI3K)/mammalian target of rapamycin (mTOR) pathway. P70(S6K) plays a crucial role in controlling cell cycle, growth and survival. The PI3K/mTOR signalling pathway is one of the major mechanisms for controlling cell survival, proliferation and metabolism and is the central regulator of translation of some components of protein synthesis system. Due to alternative translation two isoform S6K1 proteins are known to exist in mammalian cells: p85(S6K) and p70(S6K), which is identical to p85(S6K) but lacks its first 23 amino acids. In addition, mammalian cells express a second S6K1 isoform spanning 316 amino acids (p31 S6K1). mTOR is known to phosphorylate and thereby activate p70(S6K) at Thr389 and p85(S6K) at Thr412. (PMID: 25100792, PMID: 24970012, PMID: 21602892)

Storage

Storage:

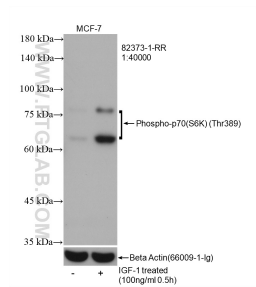
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Non-treated and IGF-1 treated MCF-7 cells were subjected to SDS PAGE followed by western blot with 82373-1-RR (Phospho-p70(S6K) (Thr389)/p85(S6K) (Thr412) antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with beta actin antibody (66009-1-Ig) as loading control.