For Research Use Only

Phospho-p70(S6K) (Thr229) Recombinant antibody

Catalog Number:81592-1-RR

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Basic Information

Catalog Number:
81592-1-RR

Size:
100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC053365

GeneID (NCBI):
6198

UNIPROT ID:
P23443

Full Name:
ribosomal protein S6 kinase, 70kDa, polypeptide 1

Calculated MW:
59 kDa

Observed MW:
65-85 kDa

Purification Method:
Protein A purification

CloneNo.:
2G19

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

RPS6KB1(Ribosomal protein S6 kinase beta-1) is also named as STK14A, p70 S6KA, and belongs to the S6 kinase subfamily. RPS6KB1 is a major substrate of mTOR and acts as a crucial effector of mTOR signaling pathway. It plays a key role in cell growth and proliferation by regulating INS sensitivity, metabolism, protein synthesis, and cell cycle. RPS6KB1 may play an important role in the progression of HCC and could serve as a potential molecular target for HCC therapy (PMID:22684641). The Rps6kb1 gene encodes the 70 kDa ribosomal protein S6 kinase (p70S6K). 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 the protein synthesis system. Due to alternative translation, two isoform S6K1 proteins are known to exist in mammalian cells: p85 S6K1 and p70 S6K1, 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).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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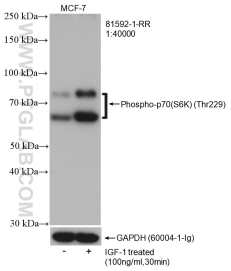
Selected Validation Data



Non-treated and IGF-1 treated MCF-7 cells were subjected to SDS PAGE followed by western blot with 81592-1-RR (Phosoho-p70(S6K) (Thr229) antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with 60004-1-Ig (GAPDH antibody) as loading control.