For Research Use Only

Phospho-p70(S6K) (Thr389) Polyclonal antibody

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Catalog Number:28735-1-AP 17 Publications

Basic Information

Catalog Number:
28735-1-AP

Size:
100ul , Concentration: 450 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_003161

GeneID (NCBI):
6198

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

Observed MW:
65-85 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:8000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB

Species Specificity:
Human

Cited Species:
human, rat

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. P70S6K 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 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). mTOR is know to phosphorylate and thereby activate p70 S6K1 at T389 and p85 S6K1 at T412. (PMID: 25100792, PMID: 24970012, PMID: 21602892)

Notable Publications

Author	Pubmed ID	Journal	Application
Minfen Zhang	34520393	Aging (Albany NY)	WB
Dengke Gao	36280090	Cell Signal	WB
Dongdong Yang	36417878	Cell Rep	WB

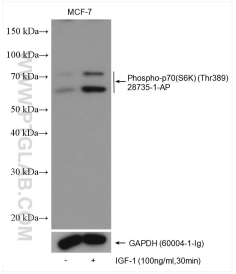
Storage

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
W: ptglab.com

Selected Validation Data



Non-treated and IGF-1 treated MCF-7 cells were subjected to SDS PAGE followed by western blot with 28735-1-AP (Phospho-p70(S6K) (Thr389) antibody) at dilution of 1:8000 incubated at room temperature for 1 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.