

For Research Use Only

# Phospho-p70(S6K) (Thr389)/p85(S6K) (Thr412) Polyclonal antibody, PBS Only

Catalog Number: 28735-1-PBS



## Basic Information

**Catalog Number:**

28735-1-PBS

**Size:**

100ug, Concentration: 1 mg/ml by Nanodrop;

**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:**

Antigen affinity purification

## Applications

**Tested Applications:**

WB, Indirect ELISA

**Species Specificity:**

human

## 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 -80°C.

**Storage Buffer:**

PBS only, pH7.3

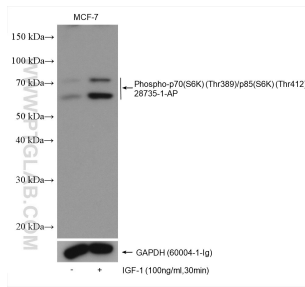
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## Selected Validation Data



Non-treated and IGF-1 treated MCF-7 cells were subjected to SDS PAGE followed by western blot with 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. This data was developed using the same antibody clone with 28735-1-PBS in a different storage buffer formulation.