

Anti-Phospho-p70 S6 Kinase 1 (Thr389) Antibody (4K165)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human; Species predicted to react based on 100% sequence homology: Mouse, rat
Conjugation:	Unconjugated
Clone:	4K165
Purification:	Protein A

Applications

Verified Activity:	<ol style="list-style-type: none">1. Western blot analysis of extracts from serum-starved MCF7, untreated (line A); treated with IGF-1 (100 ng/mL, 30 min; +) (line B); treated with IGF-1 and λ-phosphatase (line C) using Phospho-S6K1 (Thr389) rabbit monoclonal Antibody at 1:5000 dilution(upper), or Anti-RPS6KB1 rabbit polyclonal antibody (lower) at 1:5000 dilution.2. Western blot analysis of extracts from serum-starved MCF7, untreated (line A); treated with IGF-1 (100 ng/mL, 30 min), without peptide (line B) or antigen-specific phosphopeptide (line C) or antigen-specific peptide (line D) using Phospho-S6K1 (Thr389) rabbit monoclonal Antibody at 1:5000 dilution. (Validation Experiment)3. Western blot analysis of extracts from serum-starved MCF7, treated with IGF-1 (100 ng/mL, 30 min), using Phospho-S6K1 (Thr389) rabbit monoclonal Antibody (Sino) and other brands' antibodies (company C, company P) at dilution of 1:1000, 1:10000 and 1:200000. (Validation Experiment)
Application:	WB
Recommended	WB: 1:1000-1:200000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: residues around Thr389 of human p70 S6 kinase 1.
Antigen Species:	Human
Synonyms:	p70 S6 Kinase 1 (p-Thr389);p70 S6KA;p-p70 S6 Kinase 1 (Thr389);S6K;p70 S6 Kinase 1 (p-T389); S6K-beta-1;p-p70 S6 Kinase 1 (T389);p70-S6K;S6K1;PS6K;Phospho-p70 S6 Kinase 1 (T389); p70-alpha;STK14A;p70(S6K)-alpha

Research Background

PS6K, also known as RPS6KB1, is a serine/threonine-protein kinase. It belongs to the RSK (ribosomal s6 kinase) family. Members of this family function in signal transduction. PS6K is an isoform of p70 ribosomal S6 kinase (S6K). S6K can be activated by mitogenic stimuli such as growth factors, insulin and cytokines. It phosphorylates the ribosomal protein S6. PS6K also phosphorylates other proteins such as eIF4B, eEF2K and SKAR. It is a crucial effector of mTOR(rapamycin) signaling. PS6K is dissociated from the EIF3 complex and activated upon mitogenic stimulation,

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phosphorylation by the mammalian target of mTOR complex 1 (mTORC1). Its active form then phosphorylates and activates several substrates in the preinitiation complex, including the EIF2B complex and the cap-binding complex component EIF4B. PS6K also functions in cell proliferation, cell growth and cell cycle progression.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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