

p70 S6 Kinase 1 Recombinant Antibody | p70S6 recombinant antibody

Recombinant Phospho-p70 S6 Kinase 1 (Thr389) Antibody, Rabbit Monoclonal

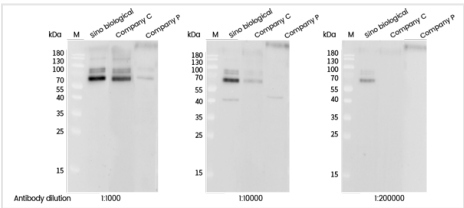
CATALOG # AAA258873	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

p70 S6 Kinase 1; Monoclonal Recombinant Antibody; Recombinant Phospho-p70 S6 Kinase 1 (Thr389) Antibody; Rabbit Monoclonal; ribosomal protein S6 kinase; polypeptide 1; Anti-p70 S6KA Antibody; Anti-p70(S6K)-alpha Antibody; Anti-p70-alpha Antibody; Anti-p70-S6K Antibody; Anti-PS6K Antibody; Anti-RPS6KB1 Antibody; Anti-S6K Antibody; Anti-S6K-beta-1 Antibody; Anti-S6K1 Antibody; Anti-STK14A Antibody; p70S6 recombinant antibody

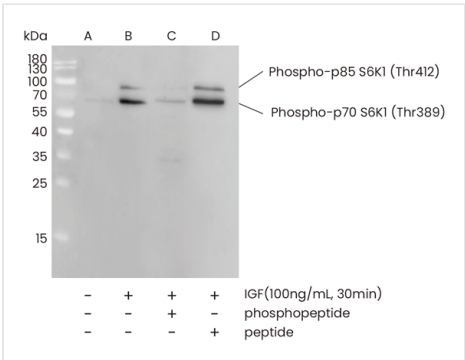
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	#0001
Specificity	Human Phospho-p70 S6 Kinase 1 (Thr389)
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for p70S6 recombinant antibody	WB (Western Blot)
Immunogen	A synthetic phosphopeptide corresponding to residues around Thr389 of human p70 S6 kinase 1.
Preparation	The antibody is produced by immunizing rabbits with a synthetic phosphopeptide corresponding to residues around Thr389 of human p70 S6 kinase 1.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



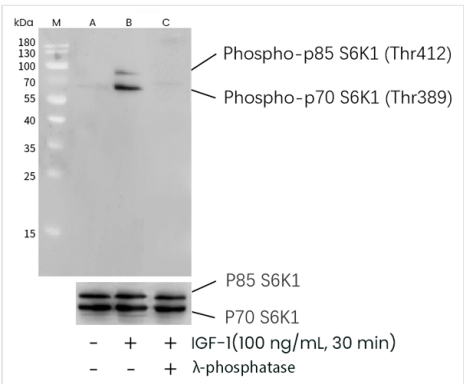
WB (Western Blot)

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 (#AAA258873) and other brands' antibodies (company C, company P) at dilution of 1:1000, 1:10000 and 1:200000.



WB (Western Blot)

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 (#AAA258873) at 1:5000 dilution.



WB (Western Blot)

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 (#AAA258873) at 1:5000 dilution (upper), or Anti-RPS6KB1 rabbit polyclonal antibody (lower) at 1:5000 dilution.

ADDITIONAL INFORMATION

Related Product Information for p70S6 recombinant antibody	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, 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.
References	Panasyuk, et al. (2006) Nuclear export of PS6K II is regulated by protein kinase CK2 phosphorylation at Ser-17. J Biol Chem. 281(42):31188-201.Carnevali L, et al. (2010) PS6K Plays a Critical Role in Early Adipocyte Differentiation. Dev Cell. 18 (5):763-74. Grove JR, et al. (1991) Cloning and expression of two human p70 S6 kinase polypeptides differing only at their amino termini. Mol Cell Biol. 11(11):5541-50.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.