

# Product datasheet

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# ARG42801 anti-P70 S6 Kinase beta antibody

Package: 100 μl Store at: -20°C

#### **Summary**

Product Description Rabbit Polyclonal antibody recognizes P70 S6 Kinase beta

Tested Reactivity Hu, Ms, Rat

Tested Application FACS, ICC/IF, IHC-P, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name P70 S6 Kinase beta

Species Human

Immunogen Recombinant protein of Human P70 S6 Kinase beta.

Conjugation Un-conjugated

Alternate Names S6K-beta2; p70 ribosomal S6 kinase beta; Ribosomal protein S6 kinase beta-2; S6 kinase-related kinase;

S6K-beta-2; p70-beta; p70 S6K-beta; p70 S6 kinase beta; p70S6Kb; STK14B; p70 S6KB; p70-S6K 2; P70-beta-1; P70-beta-2; S6K2; SRK; P70S6K2; KLS; Serine/threonine-protein kinase 14B; S6K-beta;

P70-beta; p70(S6K)-beta; 70 kDa ribosomal protein S6 kinase 2; EC 2.7.11.1

# **Application Instructions**

Application table	Application	Dilution
	FACS	1:20
	ICC/IF	1:50
	IHC-P	1:20
	WB	1:2000 - 1:10000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HeLa	
Observed Size	~ 57 kDa	

## **Properties**

Form	Liquid	
Purification	Affinity purified.	
Buffer	50 mM Tris-Glycine (pH 7.4), 150 mM NaCl, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.	
Preservative	0.01% Sodium azide	
Stabilizer	40% Glycerol and 0.05% BSA	

Concentration Batch dependent

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol RPS6KB2

Gene Full Name ribosomal protein S6 kinase, 70kDa, polypeptide 2

Background This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinases. This

kinase contains a kinase catalytic domain and phosphorylates the S6 ribosomal protein and eukaryotic translation initiation factor 4B (eIF4B). Phosphorylation of S6 leads to an increase in protein synthesis

and cell proliferation. [provided by RefSeq, Jan 2015]

Function Phosphorylates specifically ribosomal protein S6 (PubMed:29750193). Seems to act downstream of

mTOR signaling in response to growth factors and nutrients to promote cell proliferation, cell growth and cell cycle progression in an alternative pathway regulated by MEAK7 (PubMed:29750193).

[UniProt]

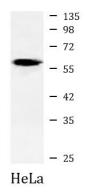
Calculated Mw 53 kDa

PTM Phosphorylated and activated by MTOR. Phosphorylation by PKC within the NLS in response to

mitogenic stimuli causes cytoplasmic retention. [UniProt]

Cellular Localization Cytoplasm. Nucleus. [UniProt]

#### **Images**



#### ARG42801 anti-P70 S6 Kinase beta antibody WB image

Western blot: HeLa cell lysate stained with ARG42801 anti-P70 S6 Kinase beta antibody at 1:1000 dilution.