

Rabbit anti-Human S6K1/RPS6KB1 Polyclonal Antibody | anti-RPS6KB1 antibody

Anti-S6K1/RPS6KB1 Antibody, Rabbit Polyclonal

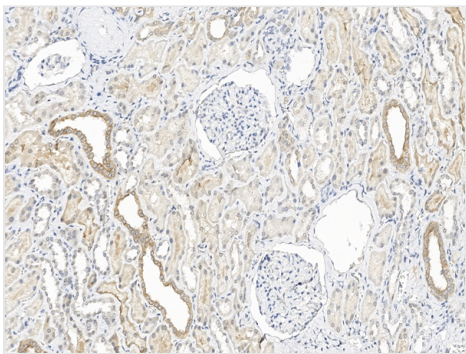
CATALOG # AAA257524	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

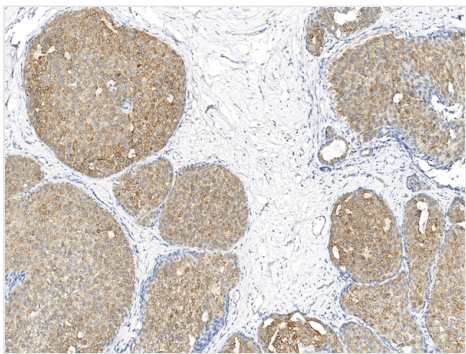
S6K1/RPS6KB1; Polyclonal Antibody; Anti-S6K1/RPS6KB1 Antibody; Rabbit Polyclonal; S6K1/RPS6KB1 Antibody; Rabbit PAb; Antigen Affinity Purified; Anti-p70 S6KA Antibody; Anti-p70(S6K)-alpha Antibody; Anti-p70-alpha Antibody; Anti-p70-S6K Antibody; Anti-PS6K Antibody; Anti-RPS6KB1 Antibody; Anti-S6K Antibody; Anti-S6K-beta-1 Antibody; Anti-S6K1 Antibody; Anti-STK14A Antibody; ribosomal protein S6 kinase; polypeptide 1; anti-RPS6KB1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human S6K1/RPS6KB1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid. 0.2um filtered solution in PBS
Applicable Applications for anti-RPS6KB1 antibody	IHC (Immunohistochemistry)
Immunogen	A synthetic peptide corresponding to the center region of the Human S6K1/RPS6KB1
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Human S6K1/RPS6KB1, and purified by antigen affinity chromatography.
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. This antibody is shipped as liquid solution at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.



IHC (Immunohistochemistry)
Immunochemical staining of human S6K1 in human kidney with rabbit polyclonal antibody at 1:200 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)
Immunochemical staining of human S6K1 in human breast carcinoma with rabbit polyclonal antibody at 1:200 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-RPS6KB1 antibody	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, 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.
Product Categories/Family for anti-RPS6KB1 antibody	AKT Signaling Pathway
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.