

Rabbit RPS6KA3 Polyclonal Antibody | anti-RPS6KA3 antibody

RPS6KA3 (S369) antibody

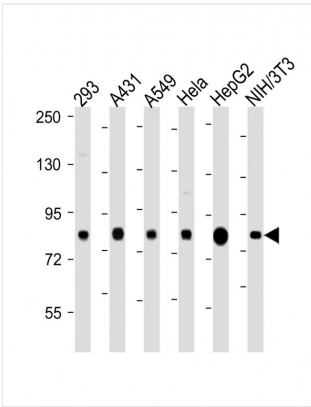
CATALOG # AAA290887	HOST Rabbit	REACTIVITY Human, MousePredicted: Zebrafish	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

RPS6KA3; Polyclonal Antibody; RPS6KA3 (S369) antibody; Purified Rabbit Polyclonal Antibody (Pab); Ribosomal protein S6 kinase alpha-3; S6K-alpha-3; 2.7.11.1; 90 kDa ribosomal protein S6 kinase 3; p90-RSK 3; p90RSK3; Insulin-stimulated protein kinase 1; ISPK-1; MAP kinase-activated protein kinase 1b; MAPK-activated protein kinase 1b; MAPKAP kinase 1b; MAPKAPK-1b; Ribosomal S6 kinase 2; RSK-2; pp90RSK2; ISPK1; MAPKAPK1B; RSK2; anti-RPS6KA3 antibody

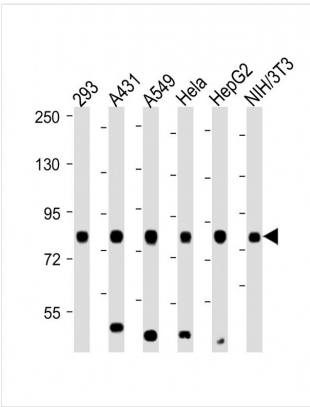
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse Predicted: Zebrafish
Clonality	Polyclonal
Isotype	IgG
Specificity	This antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 342-376 amino acids from human.
Purity/Purification	Purified through a protein A column, followed by peptide affinity purification.
Form/Format	Supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Length	740
Applicable Applications for anti-RPS6KA3 antibody	ELISA, WB (Western Blot)
Antigen Type	Synthesized Peptide
Antigen Source	Human
Tissue Location	Expressed in many tissues, highest levels in skeletal muscle
Cellular Location	Nucleus. Cytoplasm
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)

All lanes : Anti-RPS6KA3 (S369) antibody at 1:2000 dilution
Lane 1: 293 whole cell lysate
Lane 2: A431 whole cell lysate
Lane 3: A549 whole cell lysate
Lane 4: HeLa whole cell lysate
Lane 5: HepG2 whole cell lysate
Lane 6: NIH/3T3 whole cell lysate
Lysates/proteins at 20 ug per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 84 kDa
Blocking/Dilution buffer: 5% NFDm/TBST.



WB (Western Blot)

All lanes : Anti-RPS6KA3-pS369. ctrl at 1:2000 dilution
Lane 1: 293 whole cell lysate
Lane 2: A431 whole cell lysate
Lane 3: A549 whole cell lysate
Lane 4: HeLa whole cell lysate
Lane 5: HepG2 whole cell lysate
Lane 6: NIH/3T3 whole cell lysate
Lysates/proteins at 20 ug per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 84 kDa
Blocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-RPS6KA3 antibody	Serine/threonine-protein kinase that acts downstream of ERK (MAPK1/ERK2 and MAPK3/ERK1) signaling and mediates mitogenic and stress-induced activation of the transcription factors CREB1, ETV1/ER81 and NR4A1/NUR77, regulates translation through RPS6 and EIF4B phosphorylation, and mediates cellular proliferation, survival, and differentiation by modulating mTOR signaling and repressing pro-apoptotic function of BAD and DAPK1. In fibroblast, is required for EGF-stimulated phosphorylation of CREB1 and histone H3 at 'Ser-10', which results in the subsequent transcriptional activation of several immediate-early genes. In response to mitogenic stimulation (EGF and PMA), phosphorylates and activates NR4A1/NUR77 and ETV1/ER81 transcription factors and the cofactor CREBBP. Upon insulin-derived signal, acts indirectly on the transcription regulation of several genes by phosphorylating GSK3B at 'Ser-9' and inhibiting its activity. Phosphorylates RPS6 in response to serum or EGF via an mTOR- independent mechanism and promotes translation initiation by facilitating assembly of the preinitiation complex. In response to insulin, phosphorylates EIF4B, enhancing EIF4B affinity for the EIF3 complex and stimulating cap-dependent translation. Is involved in the mTOR nutrient-sensing pathway by directly phosphorylating TSC2 at 'Ser-1798', which potently inhibits TSC2 ability to suppress mTOR signaling, and mediates phosphorylation of RPTOR, which regulates mTORC1 activity and may promote rapamycin-sensitive signaling independently of the PI3K/AKT pathway. Mediates cell survival by phosphorylating the pro- apoptotic proteins BAD and DAPK1 and suppressing their pro- apoptotic function. Promotes the survival of hepatic stellate cells by phosphorylating CEBPB in response to the hepatotoxin carbon tetrachloride (CCl4). Is involved in cell cycle regulation by phosphorylating the CDK inhibitor CDKN1B, which promotes CDKN1B association with 14-3-3 proteins and prevents its translocation to the nucleus and inhibition of G1 progression. In LPS-stimulated dendritic cells, is involved in TLR4-induced macropinocytosis, and in myeloma cells, acts as effector of FGFR3-mediated transformation signaling, after direct phosphorylation at Tyr-529 by FGFR3. Negatively regulates EGF-induced MAPK1/3 phosphorylation via phosphorylation of SOS1. Phosphorylates SOS1 at 'Ser-1134' and 'Ser-1161' that create YWHAB and YWHAE binding sites and which contribute to the negative regulation of MAPK1/3 phosphorylation (By similarity). Phosphorylates EPHA2 at 'Ser-897', the RPS6KA- EPHA2 signaling pathway controls cell migration (PubMed:26158630).
Product Categories/Family for anti-RPS6KA3 antibody	Primary Antibodies; Signal Transduction
References	Bjoerbaek C.,et al.Diabetes 44:90-97(1995). Ota T.,et al.Nat. Genet. 36:40-45(2004). Totoki Y.,et al. Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases. Ross M.T.,et al.Nature 434:325-337(2005). Moller D.E.,et al.Am. J. Physiol. 266:C351-C359(1994).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4759050
NCBI GeneID	6197

NCBI Accession #	NP_004577.1
NCBI GenBank Nucleotide #	NM_004586.2
UniProt Accession #	P51812 ; Q4VAP3 ; Q59H26 ; Q5JPK8 ; Q7Z3Z7 ; B2R9V4
Molecular Weight	83736
NCBI Official Full Name	ribosomal protein S6 kinase alpha-3
NCBI Official Synonym Full Names	ribosomal protein S6 kinase A3
NCBI Official Symbol	RPS6KA3
NCBI Official Synonym Symbols	CLS; RSK; HU-3; RSK2; MRX19; ISPK-1; p90-RSK2; pp90RSK2; MAPKAPK1B; S6K-alpha3
NCBI Protein Information	ribosomal protein S6 kinase alpha-3
UniProt Protein Name	Ribosomal protein S6 kinase alpha-3
UniProt Gene Name	RPS6KA3
UniProt Synonym Gene Names	ISPK1; MAPKAPK1B; RSK2; S6K-alpha-3; p90-RSK 3; p90RSK3; ISPK-1; MAPK-activated protein kinase 1b; MAPKAP kinase 1b; MAPKAPK-1b; RSK-2

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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/rps6ka3-antibody-western-blot-elisa/290887>