

Rabbit RSK1/2/3/4 Polyclonal Antibody | anti-RSK1/2/3/4 antibody

Phospho-RSK1/2/3/4 (Ser221/Ser227/Ser218/Ser232) Antibody

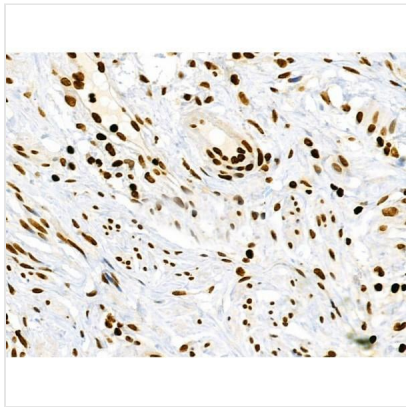
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31315	Rabbit	Human, Mouse, Rat, Monkey	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

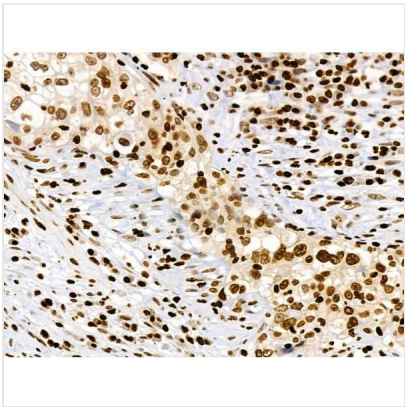
RSK1/2/3/4; Polyclonal Antibody; Phospho-RSK1/2/3/4 (Ser221/Ser227/Ser218/Ser232) Antibody; 90kDa ribosomal protein S6 kinase 3; CLS; HU 3; HU2; HU3; Insulin stimulated protein kinase 1; Insulin-stimulated protein kinase 1; ISPK-1; ISPK1; KS6A3_HUMAN; MAP kinase activated protein kinase 1b; MAP kinase-activated protein kinase 1b; MAPK activated protein kinase 1b; MAPK-activated protein kinase 1b; MAPKAP kinase 1b; MAPKAPK 1b; MAPKAPK-1b; MAPKAPK1B; Mental retardation; X linked 19; MRX19; OTTHUMP00000023036; p90 RSK2; p90 RSK3; p90-RSK 3; p90RSK3; pp90RSK2; Ribosomal protein S6 kinase 90kDa polypeptide 3; Ribosomal protein S6 kinase alpha 3; Ribosomal protein S6 kinase alpha-3; Ribosomal protein s6 kinase ii alpha 2; Ribosomal S6 kinase 2; Rps6ka3; RSK; RSK-2; RSK2; S6 kinase 2; S6K alpha3; S6K-alpha-3; 90kDa ribosomal protein S6 kinase 2; HU 2; KS6A2_HUMAN; MAP kinase activated protein kinase 1c; MAP kinase-activated protein kinase 1c; MAPK-activated protein kinase 1c; MAPKAP kinase 1c; MAPKAPK-1c; MAPKAPK1C; Mitogen. Activated protein kinase-activated protein kinase 1C; p90-RSK 2; p90RSK; anti-RSK1/2/3/4 antibody

PRODUCT SPECIFICATIONS

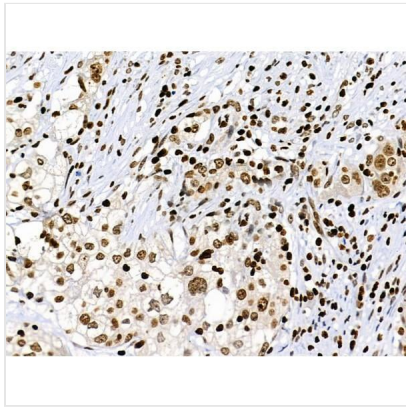
Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-RSK1/2/3/4 (Ser221/Ser227/Ser218/Ser232) Antibody detects endogenous levels of RSK1/2/3/4 only when phosphorylated at Ser221/227/s218/232. Tissue Specificity: Widely expressed with higher expression in lung, skeletal muscle, brain, uterus, ovary, thyroid and prostate.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-RSK1/2/3/4 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA (Peptide ELISA)
Application Notes	IHC: 1:50-1:200 WB: 1:500-1:2000 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human RSK1/2/3/4 around the phosphorylation site of Ser221/227/s218/232.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated at Ser-232, Ser-372, and Ser-389 in serum-starved cells.
Subunit Structure	Forms a complex with MAPK3/ERK1 but not with MAPK9 or MAPK14 in serum-starved cells.
Similarity	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. S6 kinase subfamily.
Subcellular Location	Cytoplasm>Cytosol. Nucleus. Note: Predominantly cytosolic.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



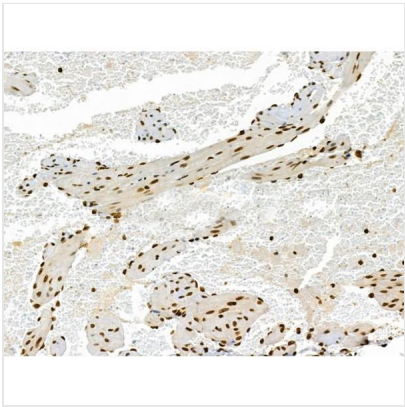
IHC (Immunohistochemistry)
At 1/100 staining Human ovarian cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



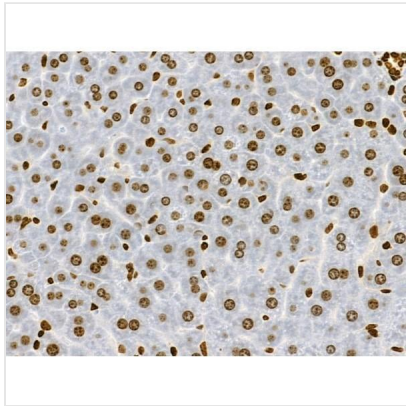
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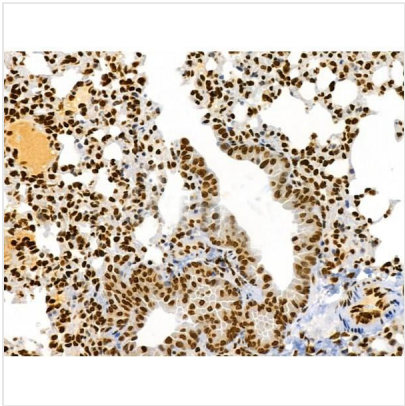
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IHC (Immunohistochemistry)
At 1/100 staining Mouse heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti- RSK1/2/3/4 antibody	Constitutively active serine/threonine-protein kinase that exhibits growth-factor-independent kinase activity and that may participate in p53/TP53-dependent cell growth arrest signaling and play an inhibitory role during embryogenesis.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	55743134
NCBI GeneID	6195
NCBI Accession #	NP_001006666.1
NCBI GenBank Nucleotide #	NM_001006665.1
UniProt Accession #	Q15418; P51812; Q15349; Q9UK32
Molecular Weight	82,723 Da
NCBI Official Full Name	ribosomal protein S6 kinase alpha-1 isoform b
NCBI Official Synonym Full Names	ribosomal protein S6 kinase, 90kDa, polypeptide 1
NCBI Official Symbol	RPS6KA1
NCBI Official Synonym Symbols	RSK; HU-1; RSK1; MAPKAPK1A
NCBI Protein Information	ribosomal protein S6 kinase alpha-1; RSK-1; p90S6K; p90RSK1; p90-RSK 1; MAPKAPK-1a; S6K-alpha 1; S6K-alpha-1; MAPKAP kinase 1a; ribosomal S6 kinase 1; MAPK-activated protein kinase 1a; ribosomal protein S6 kinase alpha 1; 90 kDa ribosomal protein S6 kinas
UniProt Protein Name	Ribosomal protein S6 kinase alpha-1
UniProt Gene Name	RPS6KA1
UniProt Synonym Gene Names	MAPKAPK1A; RSK1; S6K-alpha-1; p90-RSK 1; p90RSK1; p90S6K; MAPK-activated protein kinase 1a; MAPKAP kinase 1a; MAPKAPK-1a; RSK-1
UniProt Entry Name	KS6A1_HUMAN

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.