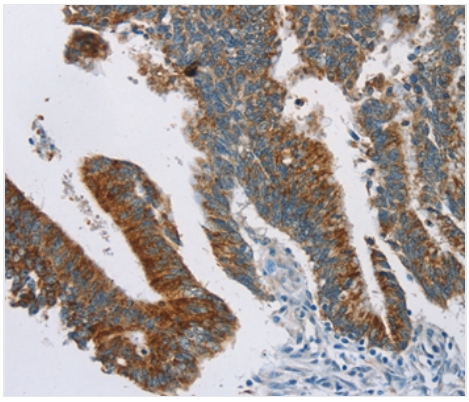
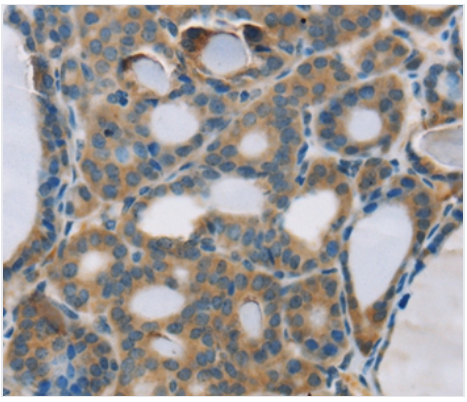
RPS6KA2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RPS6KA2, Polyclonal Antibody
Full Product Name	RPS6KA2 Antibody
Product Gene Name	anti-RPS6KA2 antibody
Product Synonym Names	RSK; HU-2; RSK3; p90-RSK3; pp90RSK3; MAPKAPK1C; S6K-alpha; S6K-alpha2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.3 PBS, 0.05% NaN3, 50% Glycerol.
Purity/Purification	Antigen affinity purification.
Concentration	1.4 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of total RPS6KA2 protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	84,014 Da
OMIM	601685
3D Structure	ModBase 3D Structure for Q15349
Immunogen Type	Peptide
Immunogen Description	Synthetic peptide corresponding to a region derived from internal residues of human ribosomal protein S6 kinase, 90kDa, polypeptide 2
Target Name	RPS6KA2
Product Categories/Family for anti-RPS6KA2 antibody	Total protein Ab
Applications Tested/Suitable for anti-RPS6KA2 antibody	Immunohistochemistry (IHC)
Application Notes for anti-RPS6KA2 antibody	Immunohistochemistry: 1:25-1:100
Related Product Information for anti-RPS6KA2 antibody	This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinases. This kinase contains 2 non-identical kinase catalytic domains and phosphorylates various substrates, including members of the mitogen-activated kinase (MAPK) signalling pathway. The activity of this protein has been implicated in controlling cell growth and differentiation. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
Other Notes	Small volumes of anti-RPS6KA2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RPS6KA2 purchase	MBS9409789 is an antibody targeting RPS6KA2. Also known as RPS6KA2 Antibody. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-RPS6KA2 antibody
Immunohistochemical analysis of paraffin-embedded Human colorectal cancer tissue using at dilution 1/20.



Immunohistochemistry (IHC) of anti-RPS6KA2 antibody
Immunohistochemical analysis of paraffin-embedded Human thyroid cancer tissue using at dilution 1/20.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RPS6KA2. It may not necessarily be applicable to this product.

NCBI GI #	55743136
NCBI GeneID	6196
NCBI Accession #	NP_001006933.1
UniProt Primary Accession #	Q15349
UniProt Secondary Accession #	Q15419; Q59GJ3; Q5TI68; Q96J38; Q9UJN5; B3KTK9
UniProt Related Accession #	Q15349
GenBank Nucleotide #	NM_001006932.1
NCBI Official Full Name	ribosomal protein S6 kinase alpha-2 isoform b
NCBI Official Synonym Full Names	ribosomal protein S6 kinase, 90kDa, polypeptide 2
NCBI Official Symbol	RPS6KA2
NCBI Official Synonym Symbols	RSK; HU-2; RSK3; p90-RSK3; pp90RSK3; MAPKAPK1C; S6K-alpha; S6K-alpha2
UniProt Protein Name	Ribosomal protein S6 kinase alpha-2
UniProt Synonym Protein Names	90 kDa ribosomal protein S6 kinase 2; p90-RSK 2; p90RSK2; MAP kinase-activated protein kinase 1c; MAPK-activated protein kinase 1c; MAPKAP kinase 1c; MAPKAPK-1c; Ribosomal S6 kinase 3; RSK-3; pp90RSK3
Protein Family	Ribosomal protein S6 kinase
UniProt Gene Name	RPS6KA2
UniProt Synonym Gene Names	MAPKAPK1C; RSK3; S6K-alpha-2; p90-RSK 2; p90RSK2; MAPK-activated protein kinase 1c; MAPKAP kinase 1c; MAPKAPK-1c; RSK-3
UniProt Entry Name	KS6A2_HUMAN
NCBI Protein Information	ribosomal protein S6 kinase alpha-2

UniProt Comments for RPS6KA2	RSK3: an AGC kinase of the RSK family. Phosphorylated and activated by Erk1 and -2 in response to many growth factors, polypeptide hormones and neurotransmitters. Several phosphorylation sites are important for its activation. Possesses two kinase domains connected by a regulator linker region. Phosphorylates a wide range of substrates including ribosomal protein S6. Protein type: Translation; Protein kinase, Ser/Thr (non-receptor); Tumor suppressor; Protein kinase, AGC; EC 2.7.11.1; Kinase, protein; AGC group; RSK family; RSK subfamily Chromosomal Location of Human Ortholog: 6q27 Cellular Component: nucleoplasm; nuclear membrane; cytoplasm; spindle; cytosol; nucleus Molecular Function: protein serine/threonine kinase activity; protein binding; protein serine/threonine/tyrosine kinase activity; magnesium ion binding; ribosomal protein S6 kinase activity; ATP binding Biological Process: axon guidance; nerve growth factor receptor signaling pathway; positive regulation of apoptosis; heart development; MyD88-independent toll-like receptor signaling pathway; stress-activated MAPK cascade; toll-like receptor 3 signaling pathway; signal transduction; brain renin-angiotensin system; oocyte maturation; negative regulation of cell cycle; toll-like receptor 10 signaling pathway; toll-like receptor 2 signaling pathway; toll-like receptor 5 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; negative regulation of cell proliferation; synaptic transmission; peptidyl-serine phosphorylation; heart contraction; negative regulation of meiosis; toll-like receptor signaling pathway; innate immune response; toll-like receptor 9 signaling pathway; toll-like receptor 4 signaling pathway
Research Articles on RPS6KA2	**1.** Data indicate that S6 kinase 2 (S6K2) can phosphorylate histone H3 at position Thr45, which may play a role during cell proliferation and/or differentiation.
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