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RPS6KA2 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1964a

Product Information

Application	WB, IHC, FC, ICC, E
Primary Accession	Q15349
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Clone Names	3C4C8
Isotype	IgG1
Calculated MW	83239
Description	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.
Immunogen	Purified recombinant fragment of human RPS6KA2 (AA: 415-734) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide.

Additional Information

Gene ID	6196
Other Names	Ribosomal protein S6 kinase alpha-2, S6K-alpha-2, 2.7.11.1, 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, RPS6KA2, MAPKAPK1C, RSK3
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	RPS6KA2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RPS6KA2
Synonyms	MAPKAPK1C, RSK3
Function	Serine/threonine-protein kinase that acts downstream of ERK (MAPK1/ERK2 and MAPK3/ERK1) signaling and mediates mitogenic and stress-induced activation of transcription factors, regulates translation, and mediates cellular proliferation, survival, and differentiation. May function as tumor suppressor in epithelial ovarian cancer cells.
Cellular Location	Nucleus. Cytoplasm
Tissue Location	Widely expressed with higher expression in lung, skeletal muscle, brain, uterus, ovary, thyroid and prostate

Background

Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a member of the L18AE family of ribosomal proteins that is a component of the 60S subunit. The encoded protein may play a role in viral replication by interacting with the hepatitis C virus internal ribosome entry site (IRES). This gene is co-transcribed with the U68 snoRNA, located within the third intron. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed throughout the genome. ; ;

References

1. Oncogene. 2007 Feb 1;26(5):683-700. 2. Exp Mol Med. 2003 Oct 31;35(5):365-70.

Images