10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-phospho-Rsk1 (Thr359/Ser363), Rabbit Monoclonal Antibody

Rabbit Monoclonal Antibody
Catalog # ABV11826

Product Information

Application	WB, IHC
Primary Accession	Q15418, Q15349
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Isotype	Rabbit IgG

Additional Information

Positive Control	WB: A431 cell lysate; IHC: human cerebral cortex tissue
Application & Usage	WB: 1:1000 - 1:2000 dilution; IHC: 1:200 -1:500 dilution
Alias Symbol	RPS6KA1
Other Names	rsk-1, rsk 1, Active RSK1, RSK1, RSK, human RSK1, active kinase, active kinases, recombinant RSK1, recombinant RSK, kinase activity assay, protein kinase
Appearance	Colorless liquid
Formulation	In 50% Glycerol/PBS with 1% BSA and 0.09% sodium azide
Reconstitution & Storage	-20 °C
Background Descriptions	
Precautions	Anti-phospho-Rsk1 (Thr359/Ser363), Rabbit Monoclonal Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

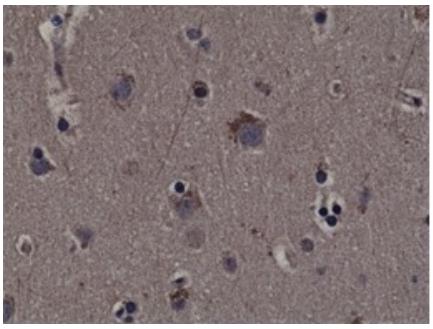
Protein Information

Background

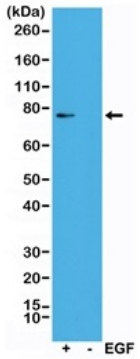
The RSK (ribosomal S6 kinase) family comprises growth factor-regulated serine/threonine kinases, known also as p90(rsk). RSK1 contains 2 nonidentical kinase catalytic domains and phosphorylates various substrates, including members of the mitogen-activated kinase (MAPK) signalling pathway. Moller described the cloning and characterization of 3 genes encoding RSKs, and HU1 (also named RPS6KA1, or RSK1) cDNA encodes a predicted 735-amino acid protein containing 2 distinct consensus ATP-binding site sequences. Northern blot and RNase protection analyses detected an approximately 3.5-kb HU1 transcript in lymphocytes, skeletal muscle, liver, and adipose tissue. Zeniou determined the expression of the RSK1, RSK2, and RSK3 genes in various human tissues, during mouse embryogenesis, and in mouse brain. RSKs are

implicated in the activation of the mitogen-activated kinase (MAPK) cascade and the stimulation of cell proliferation and differentiation.

Images



Immunohistochemical staining of formalin fixed and paraffin embedded human cerebral cortex tissue sections using anti-phospho-Rsk1 (Thr359/Ser363) antibody at 1:200 dilution.



Western blot of A431 cells treated(+) or untreated(-) with EGF, using anti-phospho-Rsk1 (Thr359/Ser363) antibody at 1:1000 dilution, showed a band of phosphorylated Rsk1 only in EGF treated A431 cells.