

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat RSK1 when phosphorylated at S380 in Western blots. Expected to detect RSK2, RSK3, and RSK4 phosphorylated at S386, S377, and S389, respectively, based on sequence homology.
Source	Monoclonal Rabbit IgG Clone # 1024A
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Phosphopeptide containing the human RSK1 S380 site Accession # Q15418
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

RSK1 (ribosomal S6 kinase 1), gene name RPS6KA1 (ribosomal protein S6 kinase α 1), also called p90RSK1 (90 kDa RSK1) or MAPKAPK 1a (MAPK-activated protein kinase 1a), is a widely expressed member of the RSK family of growth factor-regulated serine/threonine kinases. RSK proteins contain two non-identical kinase catalytic domains, and mediate activation of mitogen-activated kinase (MAPK) cascades and stimulation of cell proliferation and differentiation. Autophosphorylation on S380 allows binding of PDPK1, leading to further phosphorylation and full activation of RSK1 kinase activity. Human, mouse and rat RSK1 share 98% aa sequence identity, and are identical within the region of the peptide immunogen.

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