

DESCRIPTION

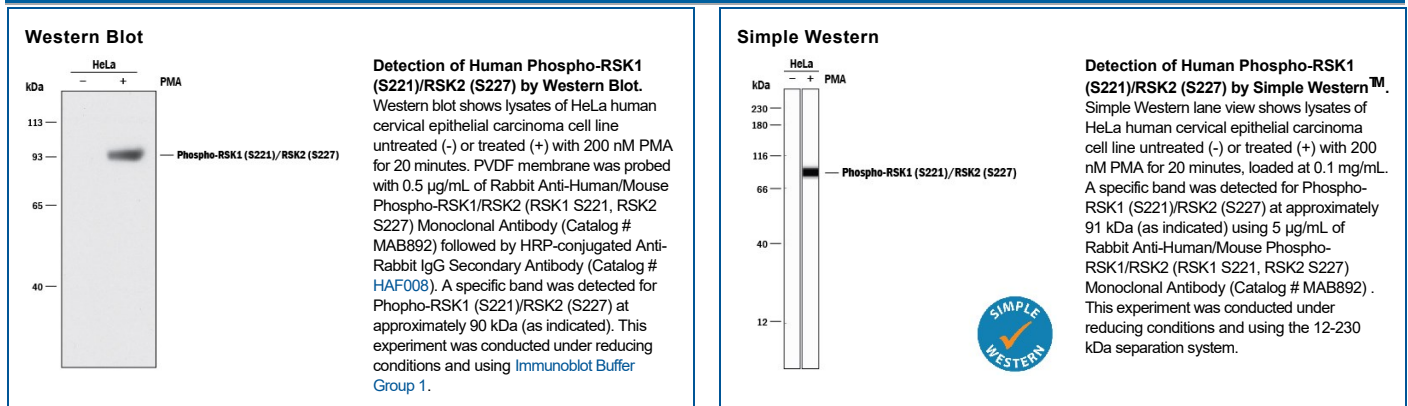
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse RSK1 when phosphorylated at S221, and human and mouse RSK2 when phosphorylated at S227.
Source	Recombinant Monoclonal Rabbit IgG Clone # 1019B
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Phosphopeptide containing the human RSK1 S221 site
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below
Simple Western	5 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

RSK1 (Ribosomal S6 Kinase 1), gene name RPS6KA1 (Ribosomal Protein S6 Kinase α1), also known as 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. Interaction with Erk1 and Erk2 initiates an ordered phosphorylation sequence which regulates RSK activation. Phosphorylation of Ser 380 recruits PDK1 which, in turn, phosphorylates RSK1 in the activation loop at Ser 221 (or Ser227 in RSK2).